



ELECTRICAL AUTOMATION 电气自动化

产品综合目录

PRODUCTS CATALOGUE

- 行程开关
- 传感器
- 按钮开关
- 继电器
- 继电器模组
- 接线端子

为客户提供专业机电解决方案

Providing mechanical and electrical solutions for customers.



产品目录

CATALOG



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Vertical Limit Switch

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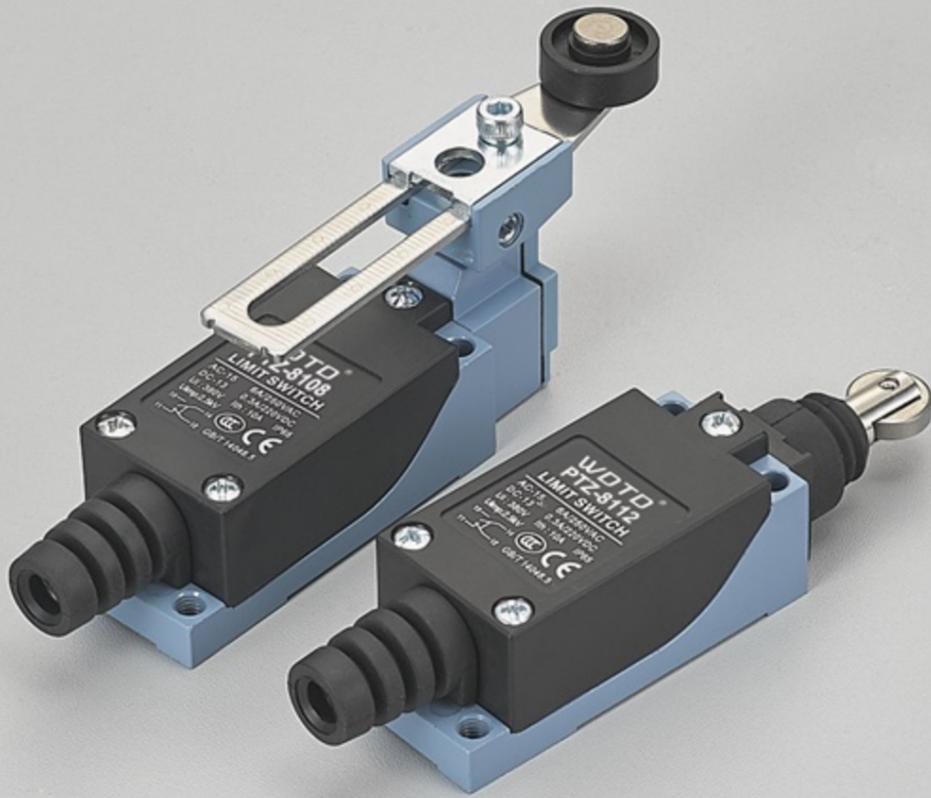


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PTZ-8 立式限位开关

Vertical Limit Switch



特点 Features

- 双回路型限位开关
- 结构坚固，由锌合金及强化塑胶组成
- 体积小，可防水、防油
- 内藏触点座有双簧片机构，机械寿命更长
- 具有较大的过行程
- 使配线更加简易的导管设计
- 引动器种类多，方便使用
- Double circuit type of limit switch
- High mechanical strength, consists of intensive plastic and aluminum cast
- Small size, water-proof and oil-proof construction
- Built-in contact box has double-spring and long mechanical life
- Smooth operation with larger over travel distance
- Conduit design for convenient cabling
- Various actuators for different applications

接点型式 Contact Form



额定值 Ratings

额定电压 Rated Voltage	非电感性负载 Noninductive Load (A)				电感性负载 Inductive Load (A)			
	电阻性负载 Resistance Load		灯泡负载 Lamp Load		电感性负载 Inductive Load		马达负载 Motor Load	
	NC	NO	NC	NO	NC	NO	NC	NO
125VAC	5	5	1.5	0.7	3	3	2	1
250VAC	5	5	1	0.5	3	3	1.5	0.8
8VDC	5	5	3	3	5	4	3	3
14VDC	5	5	3	3	4	4	3	3
30VDC	5	5	3	3	4	4	3	3
125VDC	0.4	0.4						
250VDC	0.2	0.2						
突入电流 Inrush Current	N.C.:24A 以下、N.O.:12A 以下 N.C: below 24A, N.O: below 12A							

注:1、电感性负载之功率因素在 0.4 以上 (AC)。时间常数在 7msec 以下 (DC)。
2、灯泡负载之突入电流为稳定状态电流之 10 倍。马达负载之突入电流为稳定状态电流之 6 倍。
3、带弹簧系列产品，操作体的使用范围为从弹簧的前端到弹簧全长的 1/3 以内。

NOTES: 1. Inductive load has a power factor of 0.4 min.(AC) and a time constant of 7 msec. max.(DC).
2. Lamp load has an inrush current of 10 times the steady-state current, while motor load has an inrush current of 6 times the steady-state current.
3. Product with spring, its usable range of operating part is within one third of the whole spring length from the front end of spring.

规格 Specifications

操作速度 Operation speed	5mm 至 0.5m/s 5mm-0.5m/s
动作频率 Operating frequency	电气:30 次/分 Electical: 30 operations/min
接点电阻 Contact resistance	25mΩ 以下 (初期) 25mΩ max. (initial value)
绝缘电阻 Insulation resistance	100MΩ 以上 (在 500VDC 下) 100mΩ min. (below 500VDC)
电介强度 Dielectric strength	非连续端子间 1,000VAC, 50/60Hz 持续 1 分钟 1000VAC, 50/60 Hz for 1 minute between terminals of the same polarity 载电流与无载电流零件间 1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between current-carrying and non-current-carrying metal parts 端子和接地之间 1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between each terminal and ground
振动 Vibration	10 至 55Hz, 1.5mm 双振幅 10-55Hz, 1.5mm double amplitude
冲击 Shock	机械耐久:1,000m/Sec ² (约 100G' S) 误动作耐久:300m/Sec ² (约 30G' S) Mechanical durable: 1,000m/Sec ² (about 100G'S) Malfunction: 300m/Sec ² (about 30G'S)
周围温度 Ambient temperature	使用时:-20~+70℃ (没有结冰) Using: -20~+70℃ (With no icing)
湿度 Humidity	95%RH 以下 <95% RH
电气寿命 Electrical life	500,000 次以上 500,000 operations above
保护构造 Degree of protection	IP65

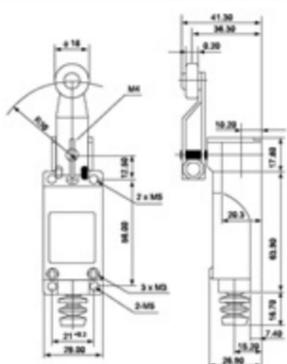
动作特性 Operating Characteristics

型号	Model	PTZ-8	PTZ-8104 PTZ-8105	PTZ-8108 PTZ-8109	PTZ-8107	PTZ-8111	PTZ-8112/8122	PTZ-8166/8167/8168/8169
操作力	Operating force	OF(最大)(Max.)	750g	750g	750g	900g	900g	150g
回弹力	Release force	RF(最小)(Min.)	100g	100g	100g	150g	150g	-
预行程	Pre-travel	PT(最大)(Max.)	20°	20°	20°	1.5mm	1.5mm	30mm
过行程	Over travel	OT(最小)(Min.)	50°	50°	50°	4mm	4mm	-
行程移动分辨率	Movement differential	MD(最大)(Max.)	12°	12°	12°	1mm	1mm	-
动作位置	Operating position	OP(mm.)	-	-	-	26 ± 0.8mm	37 ± 0.8mm	-

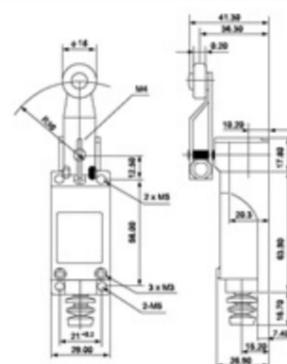
PTZ-8 立式限位开关 Vertical Limit Switch

外观和尺寸 Appearance and Dimension

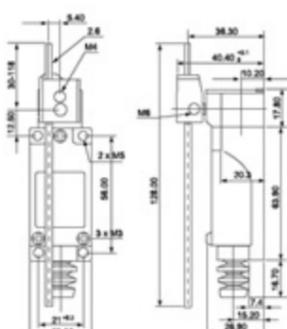
PTZ-8104



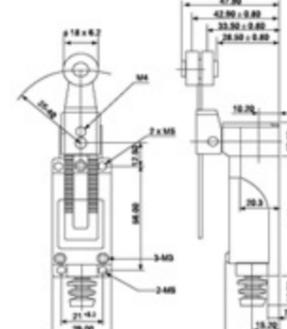
PTZ-8105



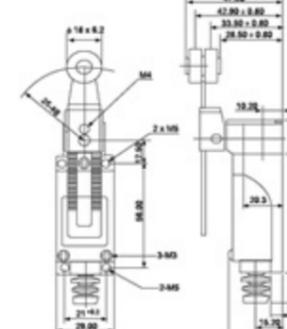
PTZ-8107



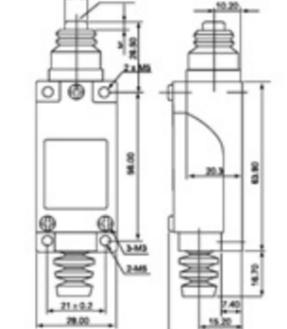
PTZ-8108



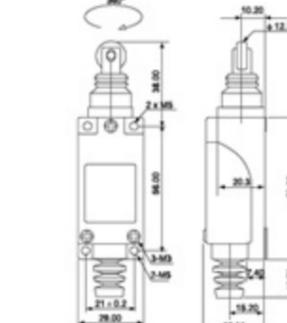
PTZ-8109



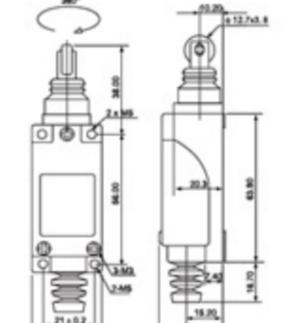
TZ-8111



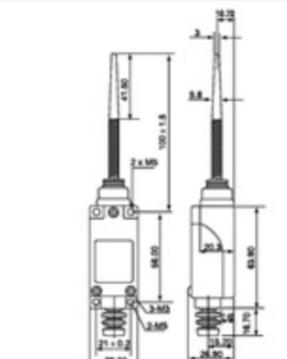
TZ-8112



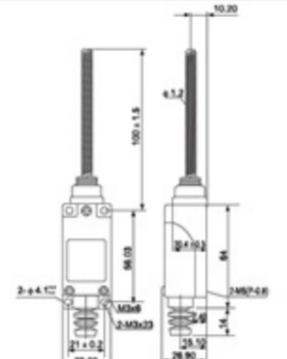
PTZ-8122



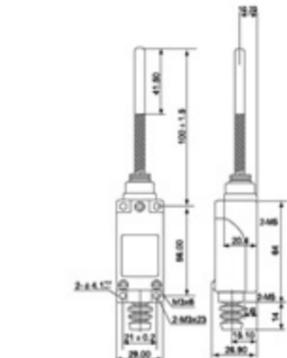
PTZ-8166



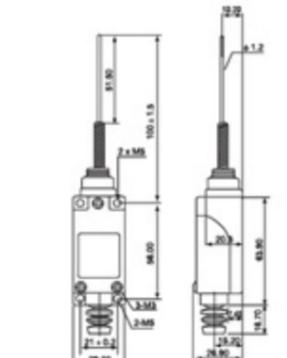
PTZ-8167

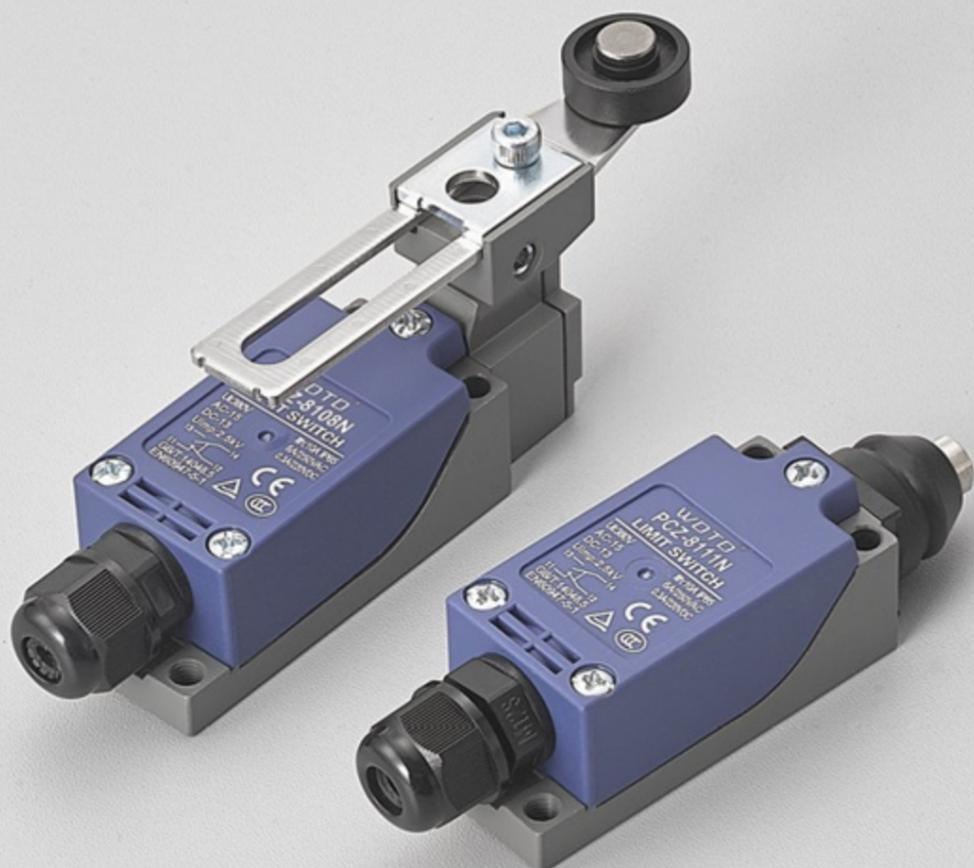


PTZ-8168



PTZ-8169





特点 Features

- 双回路型限位开关
- 结构坚固, 由锌合金及强化塑胶组成
- 体积小, 可防水、防油
- 内藏触点座有双簧片设计, 机械寿命长
- 具有较大的过行程
- 引动器种类多, 方便使用
- 优化尾部出线设计, 以提高密封性能

- Double circuit type of limit switch
- High mechanical strength, consists of intensive plastic and aluminum cast
- Small size, water-proof and oil proof construction
- Built-in contact box has double-spring and long mechanical life
- Smooth operation with larger over travel distance
- Various actuators for different application
- Optimize tail line design to improve sealing performance

接点型式 Contact Form



额定值 Ratings

额定电压 Rated Voltage	非电感性负载 Noninductive Load (A)				电感性负载 Inductive Load (A)			
	电阻性负载 Resistance Load		灯泡负载 Lamp Load		电感性负载 Inductive Load		马达负载 Motor Load	
	NC	NO	NC	NO	NC	NO	NC	NO
125VAC 250VAC	5	5	1.5	0.7	3	3	2	1
	5	5	1	0.5	3	3	1.5	0.8
8VDC	5	5	3	3	5	4	3	3
14VDC	5	5	3	3	4	4	3	3
30VDC	5	5	3	3	4	4	3	3
125VDC	0.4	0.4						
250VDC	0.2	0.2						
突入电流 Inrush Current	N.C.:24A 以下、N.O.:12A 以下 N.C: below 24A, N.O: below 12A							

注: 1、电感性负载之功率因素在 0.4 以上 (AC)。时间常数在 7msec 以下 (DC)。
2、灯泡负载之突入电流为稳定状态电流之 10 倍。马达负载之突入电流为稳定状态电流之 6 倍。
3、带弹簧系列产品, 操作体的使用范围为从弹簧的前端到弹簧全长的 1/3 以内。

NOTES: 1. Inductive load has a power factor of 0.4 min.(AC) and a time constant of 7 msec. max.(DC).
2. Lamp load has an inrush current of 10 times the steady-state current, while motor load has an inrush current of 6 times the steady-state current.
3. Product with spring, its usable range of operating part is within one third of the whole spring length from the front end of spring.

规格 Specifications

操作速度 Operation speed	5mm 至 0.5m/s 5mm-0.5m/s
动作频率 Operating frequency	电气:30 次 / 分 Electical: 30 operations/min
接点电阻 Contact resistance	25mΩ 以下 (初期) 25mΩ max. (initial value)
绝缘电阻 Insulation resistance	100MΩ 以上 (在 500VDC 下) 100mΩ min. (below 500VDC)
电介强度 Dielectric strength	非连续端子间 1,000VAC, 50/60Hz 持续 1 分钟 1000VAC, 50/60 Hz for 1 minute between terminals of the same polarity 载电流与无载电流零件间 1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between current-carrying and non-current-carrying metal parts 端子和接地之间 1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between each terminal and ground
振动 Vibration	10 至 55Hz, 1.5mm 双振幅 10-55Hz, 1.5mm double amplitude
冲击 Shock	机械耐久: 1,000m/Sec ² (约 100G' S) 误动作耐久: 300m/Sec ² (约 30G' S) Mechanical durable: 1,000m/Sec ² (about 100G'S) Malfunction: 300m/Sec ² (about 30G'S)
周围温度 Ambient temperature	使用时: -20~+70℃ (没有结冰) Using: -20~+70℃ (With no icing)
湿度 Humidity	95%RH 以下 <95% RH
电气寿命 Electrical life	500,000 次以上 500,000 operations above
保护构造 Degree of protection	IP65

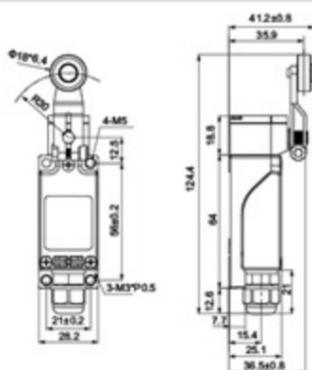
动作特性 Operating Characteristics

型号	Model	PCZ-8□N	PCZ-8104N PCZ-8105N	PCZ-8108N PCZ-8109N	PCZ-8107N	PCZ-8111N	PCZ-8112N PCZ-8122N	PCZ-8166N/8167N/8168N/8169N
操作力	Operating force	OF(最大)(Max.)	750g	750g	750g	900g	900g	150g
回弹力	Release force	RF(最小)(Min.)	100g	100g	100g	150g	150g	-
预行程	Pre-travel	PT(最大)(Max.)	20°	20°	20°	1.5mm	1.5mm	30mm
过行程	Over travel	OT(最小)(Min.)	50°	50°	50°	4mm	4mm	-
行程移动分辨率	Movement differential	MD(最大)(Max.)	12°	12°	12°	1mm	1mm	-
动作位置	Operating position	OP(mm.)	-	-	-	26 ± 0.8mm	37 ± 0.8mm	-

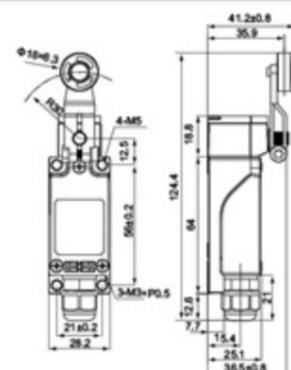
PCZ-8□N 立式限位开关 Vertical Limit Switch

外观和尺寸 Appearance and Dimension

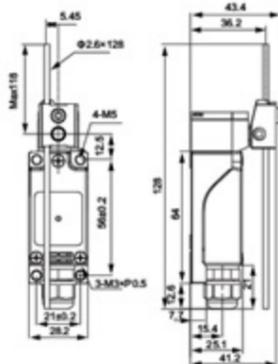
PCZ-8104N



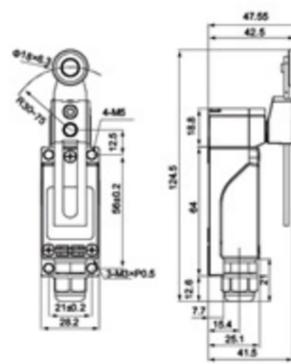
PCZ-8105N



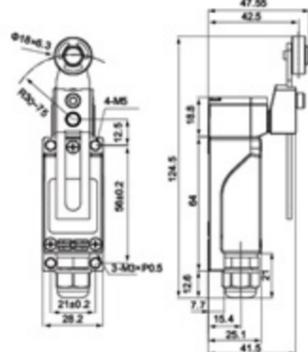
PCZ-8107N



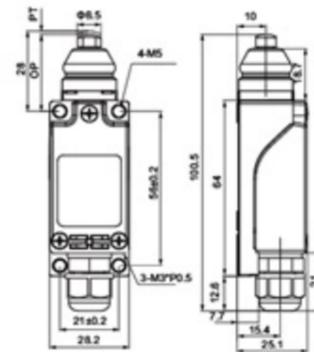
PCZ-8108N



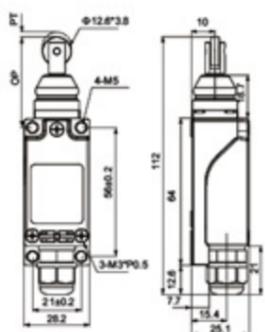
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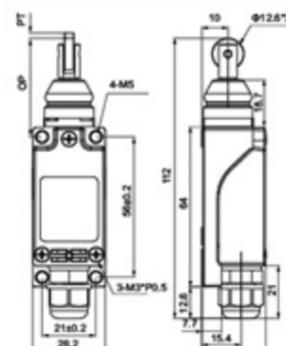
PCZ-8111N



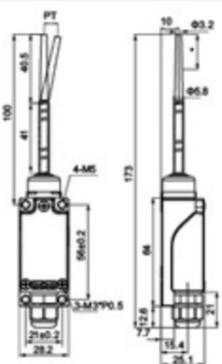
PCZ-8112N



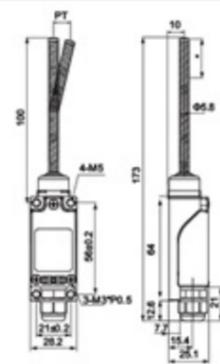
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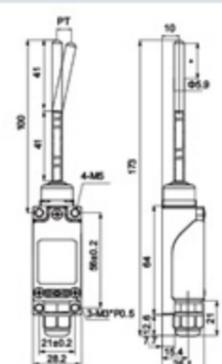
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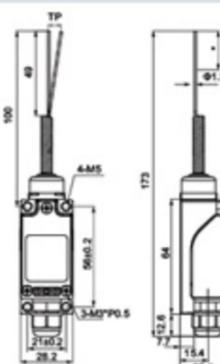
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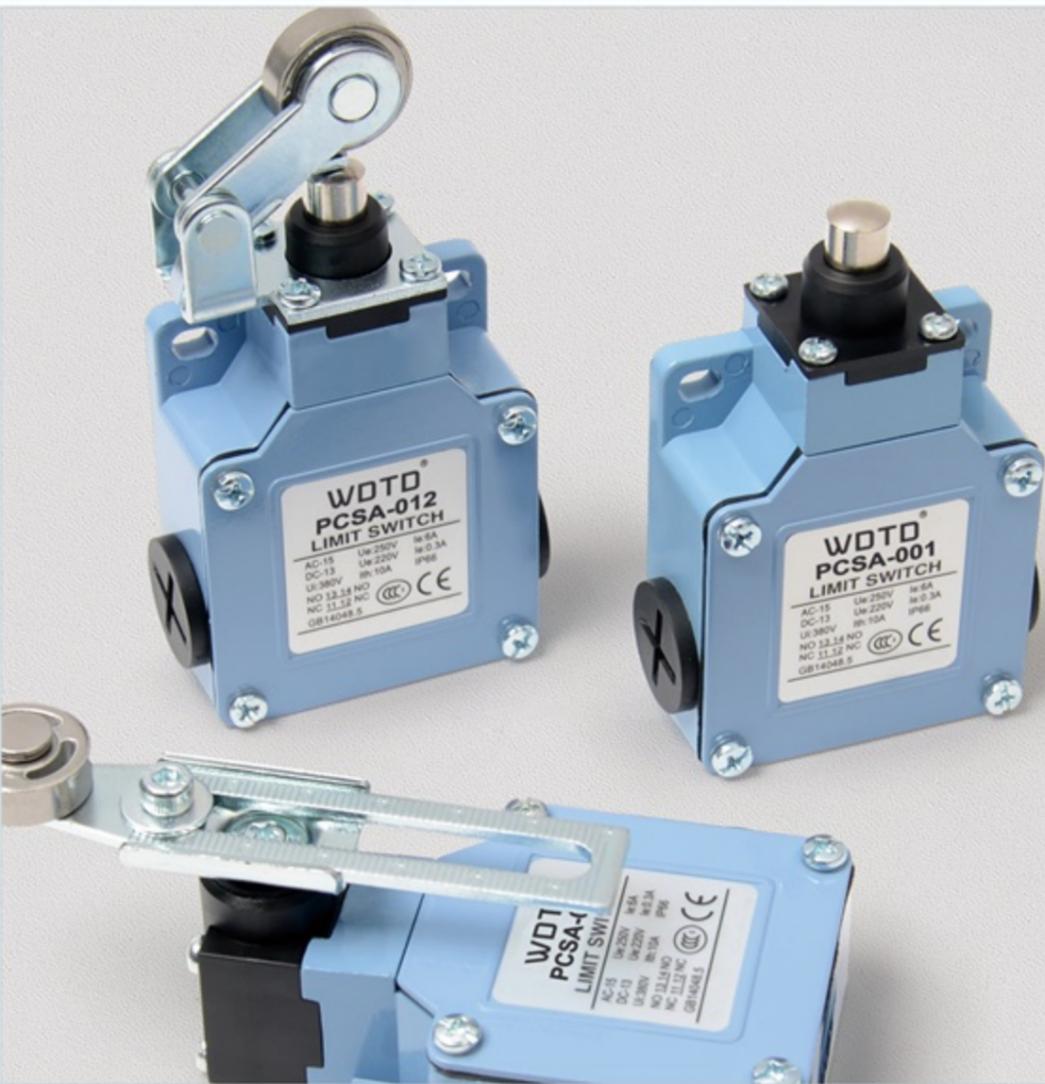


PCZ-8168N



PCZ-8169N





特点 Features

- 双回路型限位开关
- 结构坚固，由锌合金及强化塑胶组成
- 可防水、防油
- 内藏触点座有双簧片设计，机械寿命长
- 具有较大的过行程
- 引动器种类多，方便使用

- Double circuit type of limit switch
- High mechanical strength, consists of intensive plastic and aluminum cast
- Water-proof and oil proof construction
- Built-in contact box has double-spring and long mechanical life
- Smooth operation with larger over travel distance
- Various actuators for different application

接点型式 Contact Form



额定值 Ratings

额定电压 Rated Voltage	非电感性负载 Noninductive Load (A)				电感性负载 Inductive Load (A)			
	电阻性负载 Resistance Load		灯泡负载 Lamp Load		电感性负载 Inductive Load		马达负载 Motor Load	
	NC	NO	NC	NO	NC	NO	NC	NO
125VAC	5	5	1.5	0.7	3	3	2	1
250VAC	5	5	1	0.5	3	3	1.5	0.8
8VDC	5	5	3	3	5	4	3	3
14VDC	5	5	3	3	4	4	3	3
30VDC	5	5	3	3	4	4	3	3
125VDC	0.4	0.4						
250VDC	0.2	0.2						
突入电流 Inrush Current	N.C.:24A 以下、N.O.:12A 以下 N.C: below 24A, N.O: below 12A							

- 注：1、电感性负载之功率因素在 0.4 以上 (AC)。时间常数在 7msec 以下 (DC)。
 2、灯泡负载之突入电流为稳定状态电流之 10 倍。马达负载之突入电流为稳定状态电流之 6 倍。
 3、带弹簧系列产品，操作体的使用范围为从弹簧的前端到弹簧全长的 1/3 以内。

- NOTES: 1. Inductive load has a power factor of 0.4 min.(AC) and a time constant of 7 msec. max.(DC).
 2. Lamp load has an inrush current of 10 times the steady-state current, while motor load has an inrush current of 6 times the steady-state current.
 3. Product with spring, its usable range of operating part is within one third of the whole spring length from the front end of spring.

动作特性 Operating Characteristics

型号	Model	PCSA	PCSA-001	PCSA-003	PCSA-012	PCSA-021 PCSA-021M	PCSA-041	PCSA-031 PCSA-031M	PCSA-051	PCSA-061	PCSA-071	PCSA-081
操作力	Operating force	OF(最大)(Max.)	800g	800g	800g	400g	400g	400g	400g	150g	150g	150g
回弹力	Release force	RF(最小)(Min.)	400g	400g	400g	100g	100g	100g	100g	50g	50g	50g
预行程	Pre-travel	PT(最大)(Max.)	1.8mm	1.8mm	1.8mm	20°	20°	20°	20°	30mm	30mm	30mm
触发位置	Tripping position	TP ± 10%	2.0mm	2.0mm	2.0mm	22.5°	22.5°	22.5°	22.5°	22.5°	22.5°	22.5°
行程移动分辨率	Movement differential	MD(最大)(Max.)	1.2mm	1.2mm	1.2mm	10°	10°	10°	10°	14°	14°	14°
过行程	Over travel	OT(最小)(Min.)	4.0mm	4.0mm	4.0mm	75°	75°	75°	75°	20mm	20mm	20mm
总行程	Total travel	TT(最小)(Min.)	5.8mm	5.8mm	5.8mm	95°	95°	95°	95°	50mm	50mm	50mm
摇臂转换分角度	Rotary indexing					22.5°	22.5°	22.5°	22.5°			

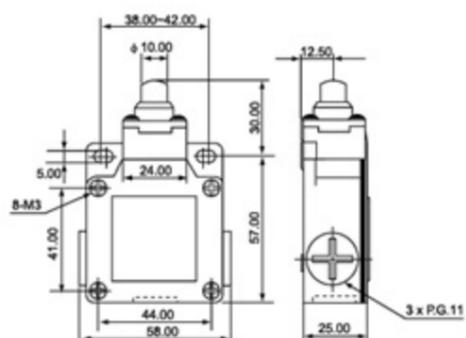
规格 Specifications

操作速度 Operation speed	5mm 至 0.5m/s 5mm-0.5m/s
动作频率 Operating frequency	电气:30 次/分 Electrical: 30 operations/min
接点电阻 Contact resistance	25mΩ 以下 (初期) 25mΩ max. (initial value)
绝缘电阻 Insulation resistance	100MΩ 以上 (在 500VDC 下) 100mΩ min. (below 500VDC)
电介强度 Dielectric strength	非连续端子间 1,000VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between current-carrying and non-current-carrying metal parts 载电流与无载电流零件间 1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between current-carrying and non-current-carrying metal parts 端子和接地之间 1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between each terminal and ground
振动 Vibration	10 至 55Hz, 1.5mm 双振幅 10-55Hz, 1.5mm double amplitude
冲击 Shock	机械耐久: 1,000m/Sec ² (约 100G'S) 误动作耐久: 300m/Sec ² (约 30G'S) Mechanical durable: 1,000m/Sec ² (about 100G'S) Malfunction: 300m/Sec ² (about 30G'S)
周围温度 Ambient temperature	使用时: -20~+70°C (没有结冰) Using: -20~+70°C (With no icing)
湿度 Humidity	95%RH 以下 <95% RH
电气寿命 Electrical life	500,000 次以上 500,000 operations above
保护构造 Protection level	IP66

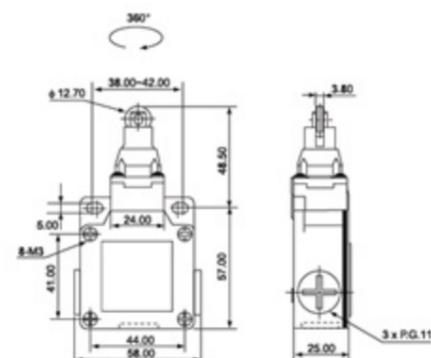
- 注：导管连接器尺寸常规默认为 M18x1.5；导管连接器尺寸 PG11.5，型号加 (-P)，例：PCSA-012-P。
 NOTES: The default size of conduit connector is M18x1.5. Conduit connector size is PG11.5, with product model number plus (-P), example: PCSA-012-P.

外观和尺寸 Appearance and Dimension

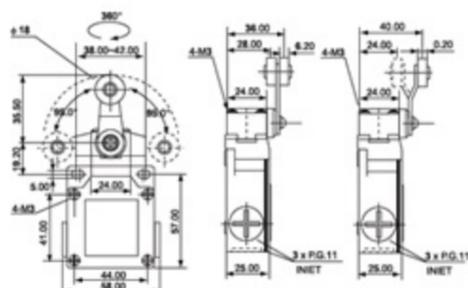
PCSA-001



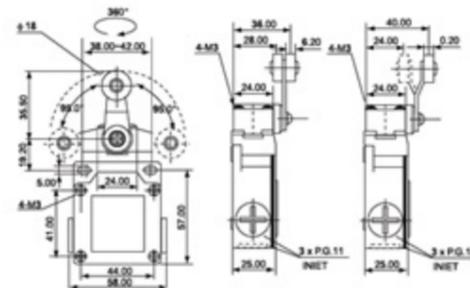
PCSA-003



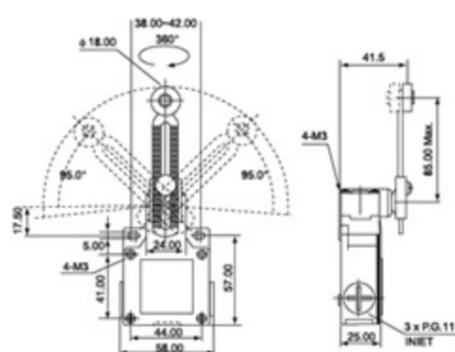
PCSA-021



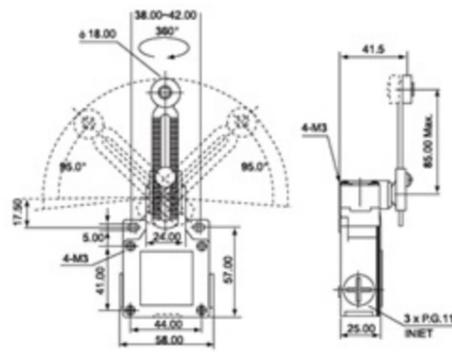
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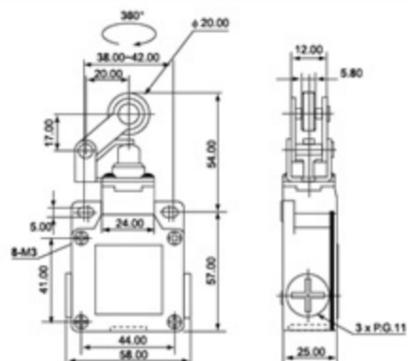
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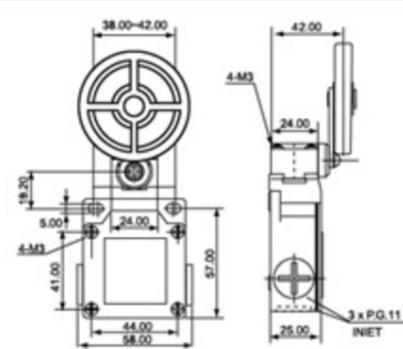
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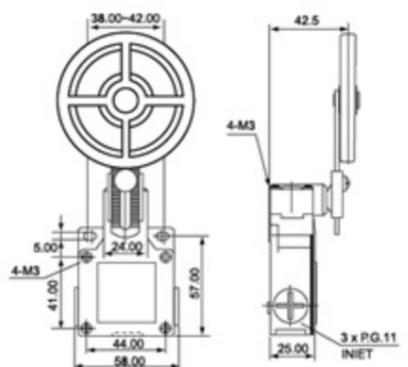
PCSA-012



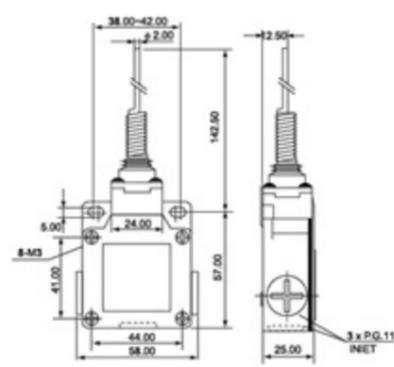
PCSA-041



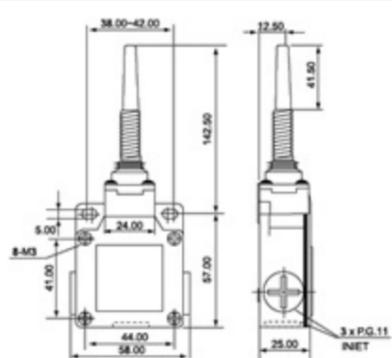
PCSA-051



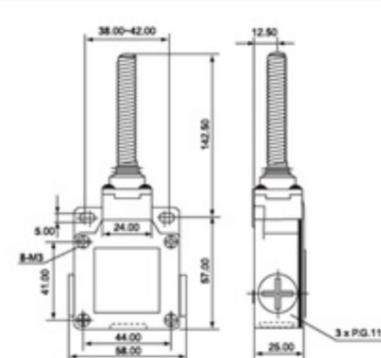
PCSA-061

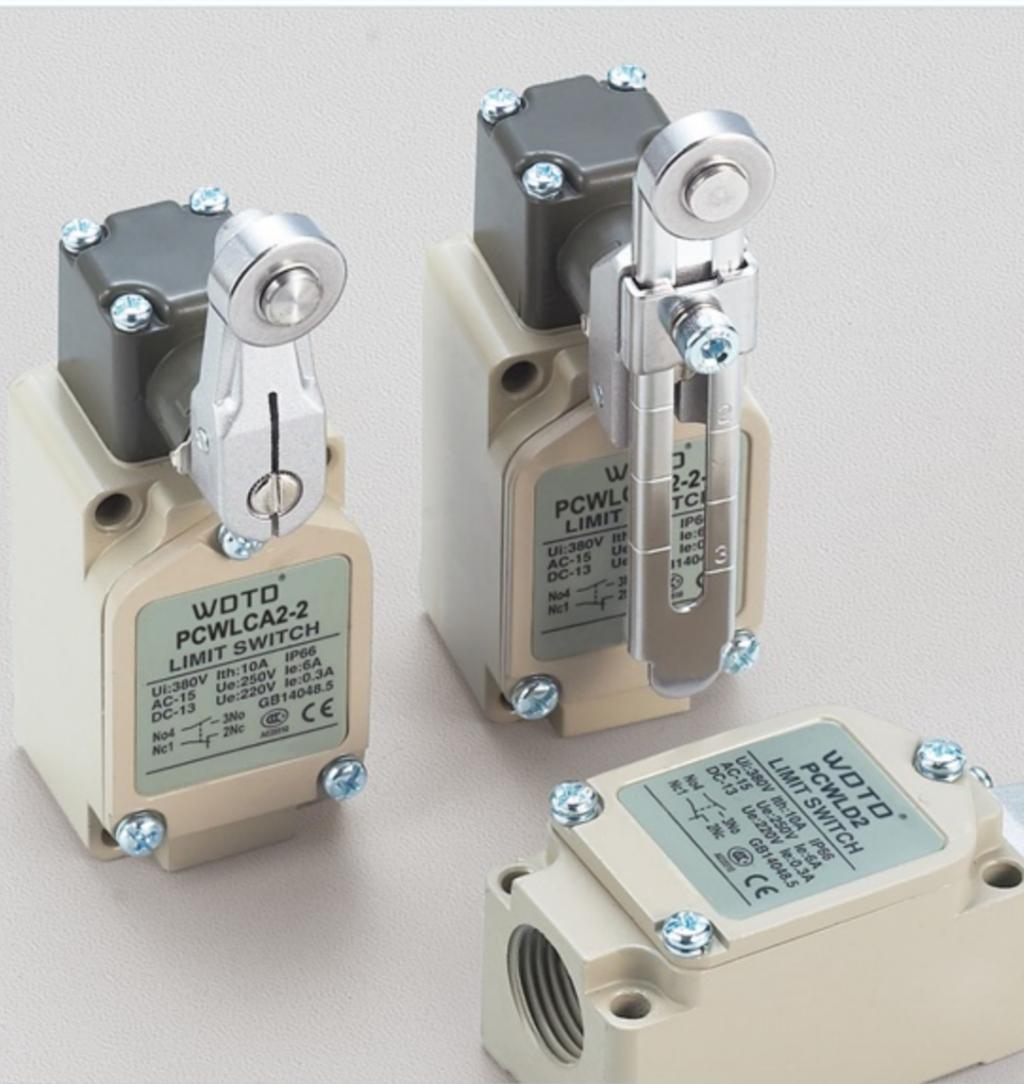


PCSA-071



PCSA-081





特点 Features

- 双回路型限位开关
- 具有高机械强度的一体铸造铝合金外壳
- 具耐油、防水和防压结构
- 引动器种类多，方便使用
- 内藏接点座有双簧片设计，机械寿命长

- Double-circuit type of limit switch
- High mechanical strength, mainly consists of aluminum cast
- Water-proof and oil-proof construction
- Various actuators for different applications
- Built-in contact box with double spring mechanism, longer mechanical life

接点型式 Contact Form



额定值 Ratings

额定电压 Rated Voltage	非电感性负载 Noninductive Load (A)				电感性负载 Inductive Load (A)			
	电阻性负载 Resistance Load		灯泡负载 Lamp Load		电感性负载 Inductive Load		马达负载 Motor Load	
	NC	NO	NC	NO	NC	NO	NC	NO
125VAC	10	3	1.5	10	5	2.0		
250VAC	5	2	1	5	3	1.0		
480VAC	3	1.5	0.8	3	1.5	0.8		
600VAC	1	1	0.5	1.5	1	0.5		
8VDC	10	6	3	10		6		
14VDC	10	6	3	10		6		
30VDC	6	4	3	6		4		
125VDC	0.8	0.2	0.2	0.8		0.2		
250VDC	0.4	0.1	0.1	0.4		0.1		

注：1、电感性负载：功率因素=0.4；时间常数=7msec。
 2、灯泡负载之突入电流为稳定状态电流之10倍。马达负载之突入电流为稳定状态电流之6倍。
 3、带弹簧系列产品，操作体的使用范围为从弹簧的前端到弹簧全长的1/3以内。
 NOTES: 1. Inductive load has a power factor of 0.4 min.(AC) and a time constant of 7 msec. max.(DC).
 2. Lamp load has an inrush current of 10 times the steady-state current, while motor load has an inrush current of 6 times the steady-state current.
 3. Product with spring, its usable range of operating part is within one third of the whole spring length from the front end of spring.

规格 Specifications

操作速度 Operation speed	1mm 至 1m/s(CWLCA2 型) 1mm-1m/s
动作频率 Operating frequency	电气:30次/分 Electrical: 30 operations/min
接点电阻 Contact resistance	25mΩ 以下 (初期) 25mΩ max. (initial value)
绝缘电阻 Insulation resistance	100MΩ 以上 (在 500VDC 下) 100mΩ min. (below 500VDC)
电介强度 Dielectric strength	非连续端子间 1,000VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between current-carrying and non-current-carrying metal parts
	载电流与无载电流零件间 1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between current-carrying and non-current-carrying metal parts
	端子和接地之间 1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between each terminal and ground
振动 Vibration	10 至 55Hz, 1.5mm 双振幅 10-55Hz, 1.5mm double amplitude
冲击 Shock	机械耐久: 1,000m/Sec ² (约 100G'S) 误动作耐久: 300m/Sec ² (约 30G'S) Mechanical durable: 1,000m/Sec ² (about 100G'S) Malfunction: 300m/Sec ² (about 30G'S)
周围温度 Ambient temperature	使用时: -20~+80°C (没有结冰) Using: -20~+80°C (With no icing)
湿度 Humidity	95%RH 以下 <95% RH
电气寿命 Electrical life	500,000 次以上 500,000 operations above
保护构造 Protection level	IP66

注：导管连接器尺寸常规默认为 M20x1.5，配电缆接头；导管连接器尺寸 PG13.5，型号加 (-P)，例：PCWLCA2-2-P。

NOTES: The default size of conduit connector is M20x1.5, outfitting cable connector. Conduit connector size is PG13.5, with product model number plus (-P), example: PCWLCA2-2-P.

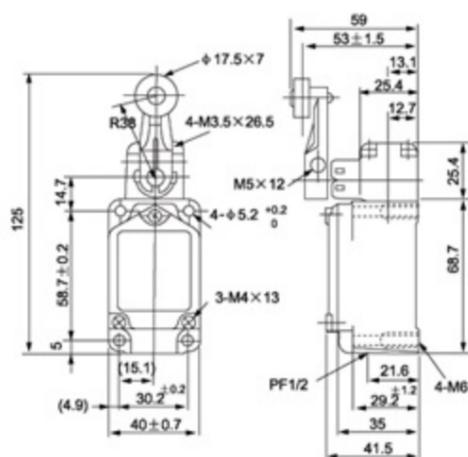
动作特性 Operating Characteristics

型号	Model	PCWL	PCWLCA2-2	PCWLD2	PCWLNJ	PCWLNJ-S2	PCWLCA12-2-Q PCWLCA12-2-QD	PCWLCL	PCWLCA32-41 PCWLCA32-42	PCWLD	PCWLNJ-2	PCWLNJ-30	PCWLD1	PCWLD3
操作力	Operating Force	OF(最大)(Max.)	1360g	2720g	150g	29g	1360g	142g	1200g	2720g	120g	80g	2720g	2720g
回弹力	Release Force	RF(最小)(Min.)	227g	910g	-	-	227g	28g	-	910g	-	-	910g	910g
预行程	Pre-Travel	PT(最大)(Max.)	20°	1.7mm	28mm	28mm	20°	20°	55°	1.7mm	28mm	28mm	1.7mm	1.7mm
过行程	Over Travel	OT(最小)(Min.)	30°	5.6mm	-	-	30°	30°	35°	6.4mm	-	-	5.6mm	5.6mm
行程移动分辨率	Movement Differential	MD(最大)(Max.)	12°	1mm	-	-	12°	12°	-	1mm	-	-	1mm	1mm
总行程动作力	Total Force	TF 最大 (Max.)	2720g	-	-	-	2720g	200g	-	-	-	-	2720g	2720g
总行程	Total Travel	TT 最小 (Min.)	50°	6.5±0.8mm	-	-	50°	50°	OP:90±10°	OP:34±2.8mm	-	-	6.5±0.8mm	9±0.8mm

PCWL 立式限位开关 Vertical Limit Switch

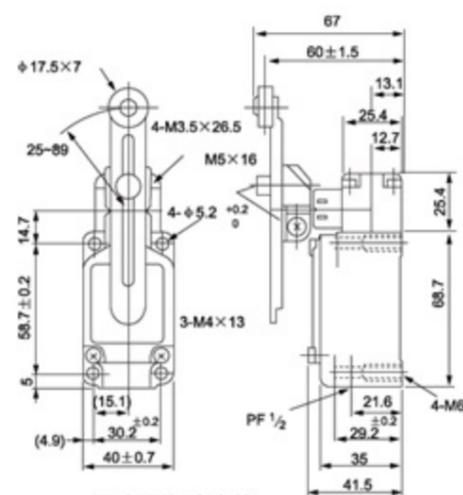
外观和尺寸 Appearance and Dimension

PCWLCA2-2



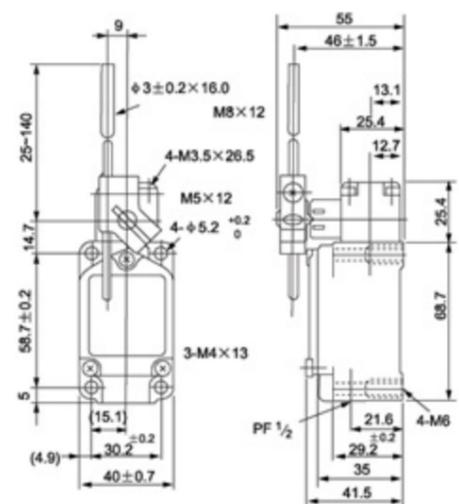
可选配塑胶滚轮
Optional plastic idler wheel

PCWLCA12-2-Q

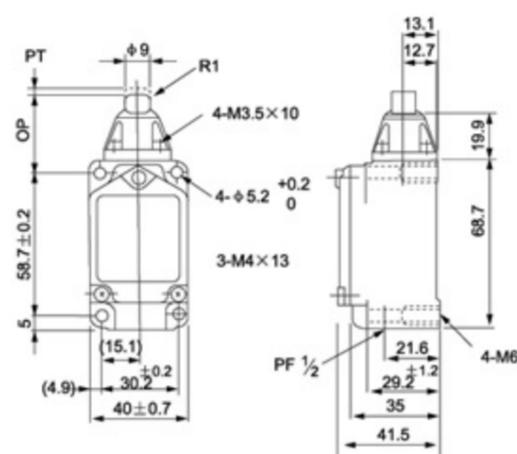


可选配塑胶滚轮
Optional plastic idler wheel

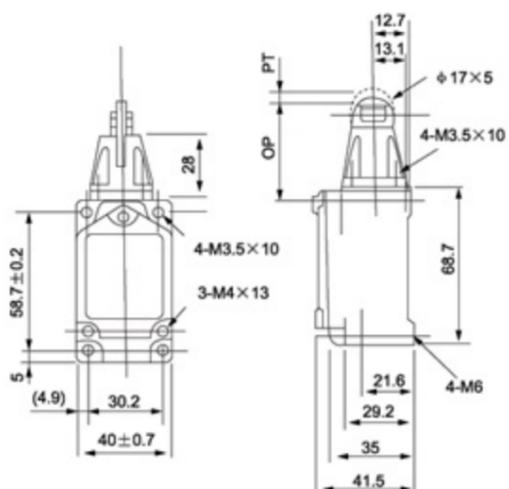
PCWLCL



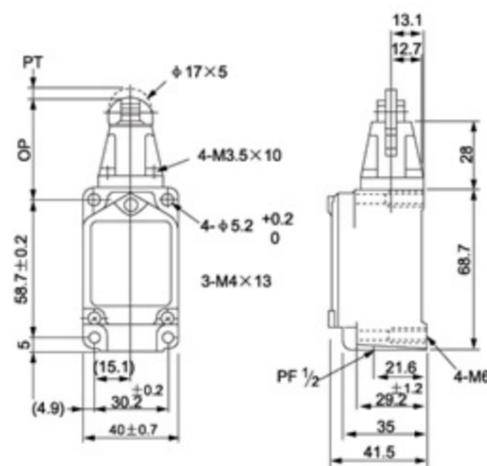
PCWLD



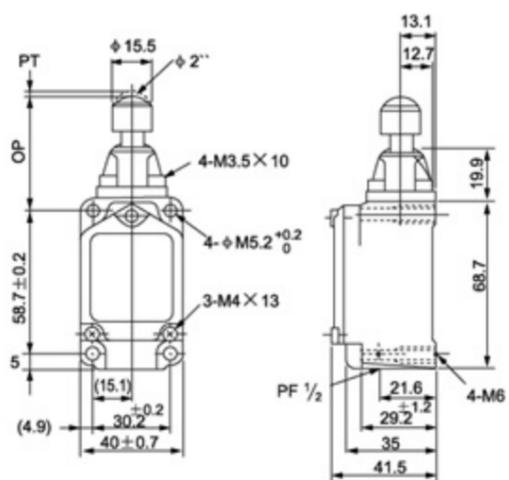
PCWLD1



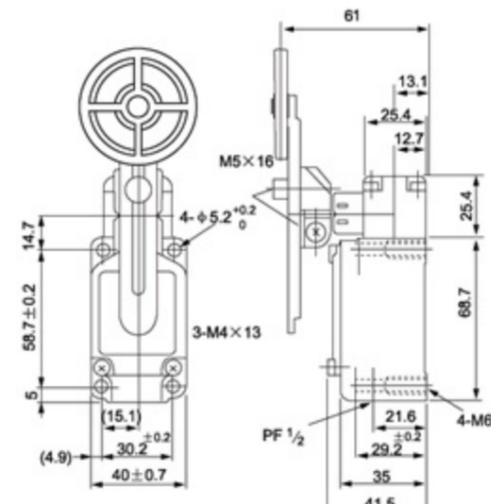
PCWLD2



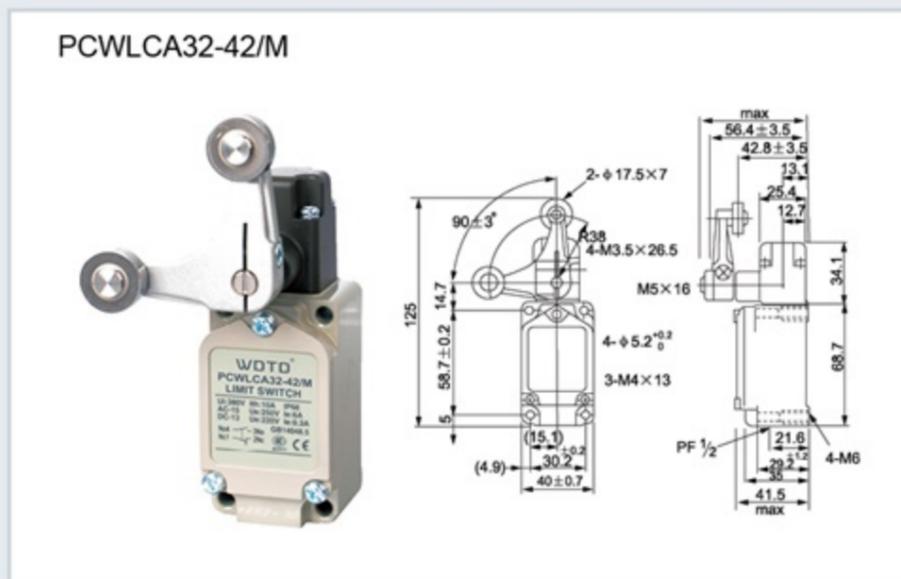
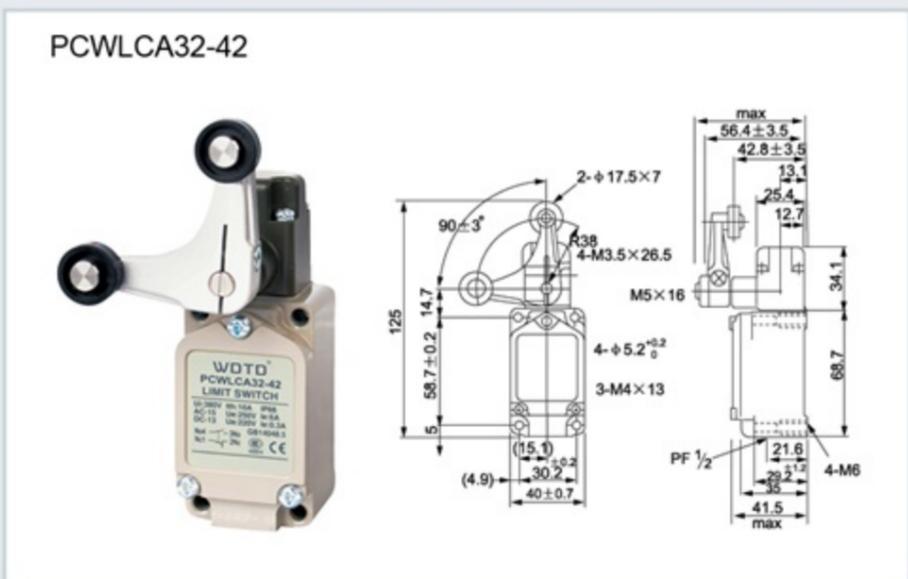
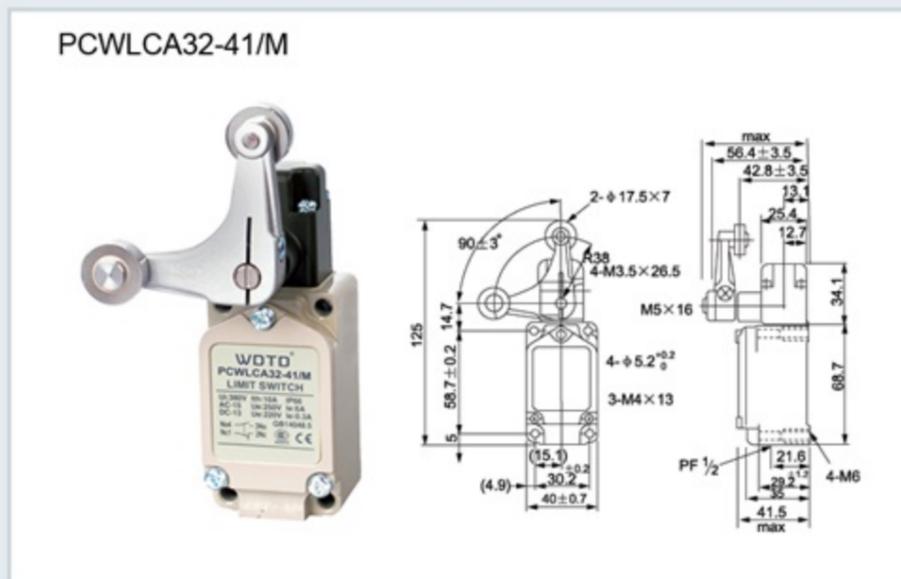
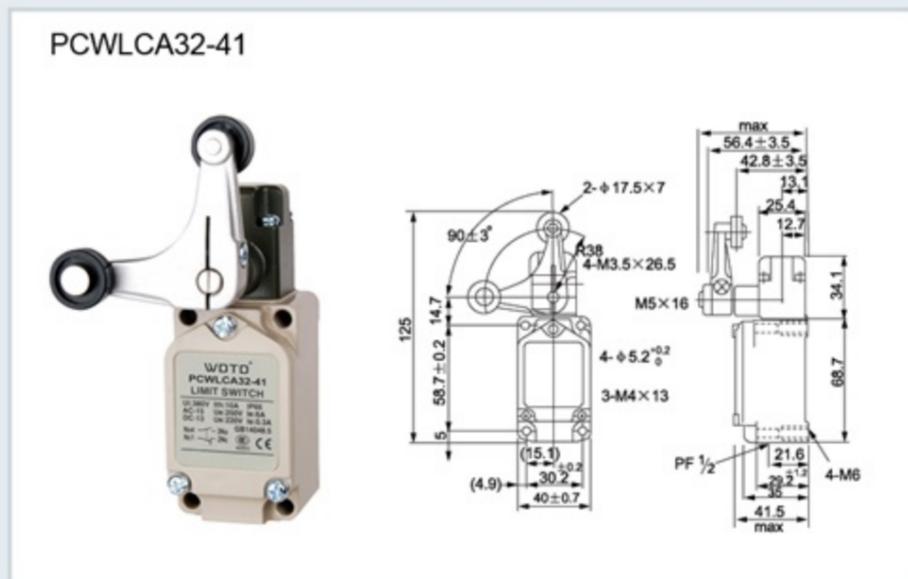
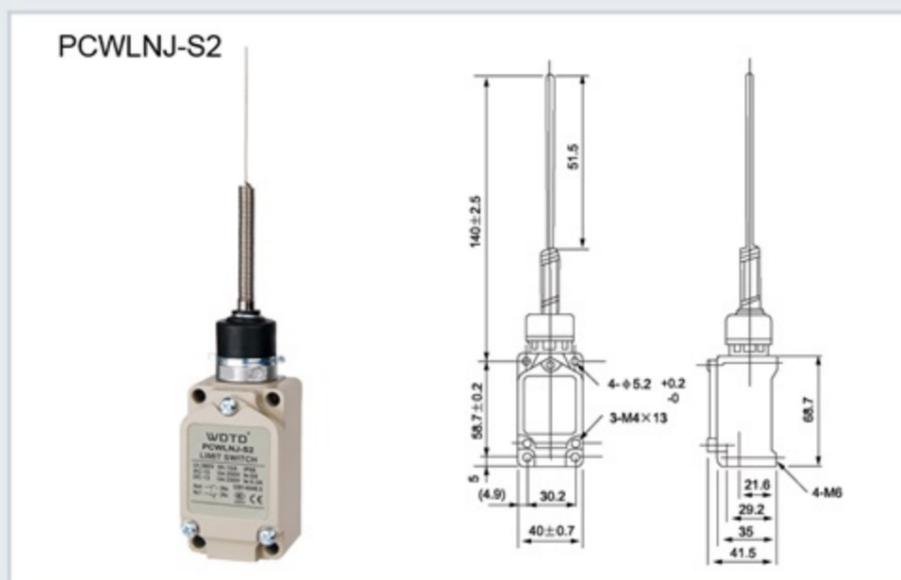
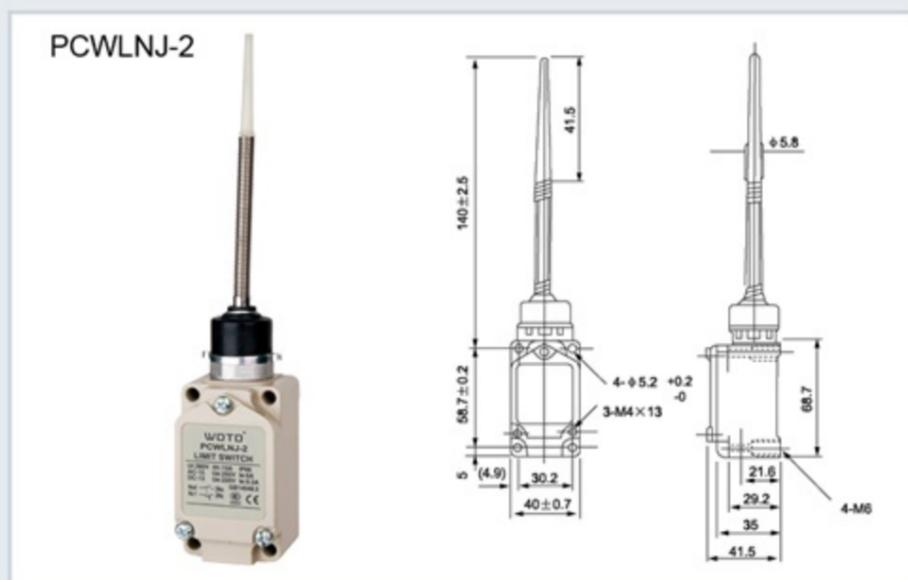
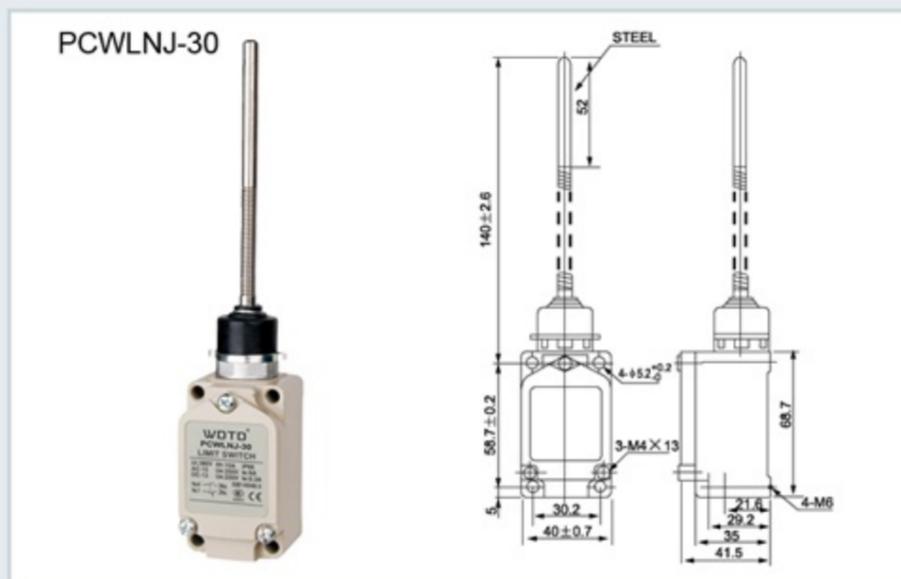
PCWLD3



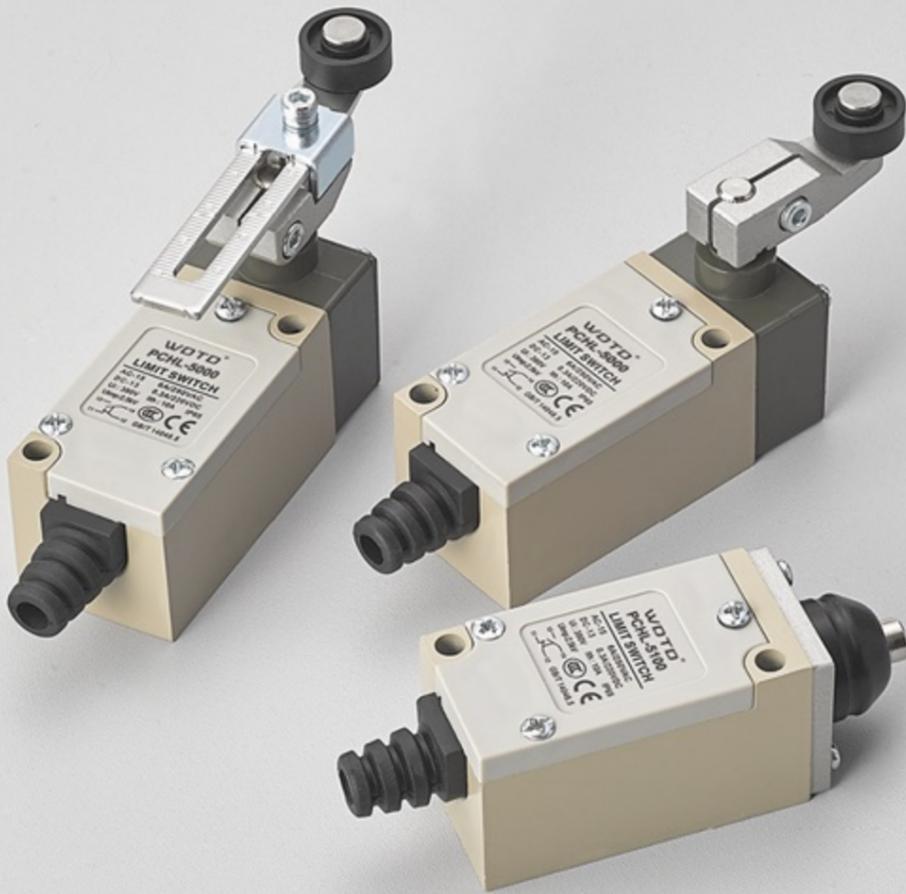
PCWLCA12-2-QD



外观和尺寸 Appearance and Dimension



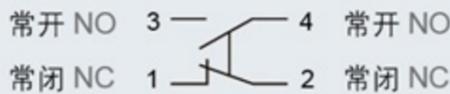
PCHL 立式限位开关 Vertical Limit Switch



特点 Features

- 引动器种类多，方便使用
 - 使配线更加简易的导管设计
 - 金属外壳，高机械强度
 - 内藏触点座有双簧片设计，机械寿命长
- Various actuators for different applications
 - Conduit design for convenient cabling
 - Metal shell with high mechanical strength
 - Built-in contact box has double-spring and long mechanical life

接点型式 Contact Form



额定值 Ratings

额定电压 Rated Voltage	非电感性负载 Noninductive Load (A)				电感性负载 Inductive Load (A)			
	电阻性负载 Resistance Load		灯泡负载 Lamp Load		电感性负载 Inductive Load		马达负载 Motor Load	
	NC	NO	NC	NO	NC	NO	NC	NO
125VAC 250VAC	5	5	1.5	0.7	3	3	2	1
	5	5	1	0.5	3	3	1.5	0.8
8VDC	5	5	3	3	5	4	3	3
14VDC	5	5	3	3	4	4	3	3
30VDC	5	5	3	3	4	4	3	3
125VDC	0.4	0.4						
250VDC	0.2	0.2						
突入电流 Inrush Current	N.C.:24A 以下、N.O.:12A 以下 N.C.: below 24A, N.O.: below 12A							

- 注:1、电感性负载之功率因素在 0.4 以上 (AC)。时间常数在 7msec 以下 (DC)。
2、灯泡负载之突入电流为稳定状态电流之 10 倍。马达负载之突入电流为稳定状态电流之 6 倍。
3、带弹簧系列产品，操作体的使用范围为从弹簧的前端到弹簧全长的 1/3 以内。

- NOTES: 1. Inductive load has a power factor of 0.4 min.(AC) and a time constant of 7 msec. max.(DC).
2. Lamp load has an inrush current of 10 times the steady-state current, while motor load has an inrush current of 6 times the steady-state current.
3. Product with spring, its usable range of operating part is within one third of the whole spring length from the front end of spring.

动作特性 Operating Characteristics

型号	Model	PCHL	PCHL-5000	PCHL-5030	PCHL-5050	PCHL-5100	PCHL-5200	PCHL-5220	PCHL-5300	PCHL-5330	PCHL-5381	PCHL-5391
操作力	Operating force	OF (最大)(Max.)	750g	750g	750g	750g	900g	900g	150g	150g	150g	550g
回弹力	Release force	RF (最小)(Min.)	100g	100g	100g	200g	200g	200g	30g	30g	30g	100g
预行程	Pre-travel	PT (最大)(Max.)	20°	20°	20°	1.8mm	1.8mm	1.8mm	30mm	30mm	30mm	20°
触发位置	Tripping position	TP ± 10%	22.5°	22.5°	22.5°	2.0mm	2.0mm	2.0mm	22.5°	22.5°	22.5°	22.5°
行程移动分辨率	Movement differential	MD (最大)(Max.)	10°	10°	10°	1.2mm	1.2mm	1.2mm	14°	14°	14°	14°
过行程	Over travel	OT (最小)(Min.)	75°	75°	75°	4.0mm	4.0mm	4.0mm	20mm	20mm	20mm	75°
总行程	Total travel	TT (最小)(Min.)	95°	95°	95°	5.8mm	5.8mm	5.8mm	50mm	50mm	50mm	95°

规格 Specifications

操作速度 Operation speed	5mm 至 0.5m/s 5mm-0.5m/s
动作频率 Operating frequency	电气:30 次/分 Electrical: 30 operations/min
接点电阻 Contact resistance	25mΩ 以下 (初期) 25mΩ max. (initial value)
绝缘电阻 Insulation resistance	100MΩ 以上 (在 500VDC 下) 100mΩ min. (below 500VDC)
电介强度 Dielectric strength	非连续端子间 1,000VAC, 50/60Hz 持续 1 分钟 1000VAC, 50/60 Hz for 1 minute between terminals of the same polarity 载电流与无载电流零件间 1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between current-carrying and non-current-carrying metal parts 端子和接地之间 1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between each terminal and ground
振动 Vibration	10 至 55Hz, 1.5mm 双振幅 10-55Hz, 1.5mm double amplitude
冲击 Shock	机械耐久:1,000m/Sec ² (约 100G' S) 误动作耐久:300m/Sec ² (约 30G' S) Mechanical durable: 1,000m/Sec ² (about 100G'S) Malfunction: 300m/Sec ² (about 30G'S)
周围温度 Ambient temperature	使用时:-20~+70℃ (没有结冰) Using: -20~+70℃ (With no icing)
湿度 Humidity	95%RH 以下 <95% RH
电气寿命 Electrical life	500,000 次以上 500,000 operations above
保护构造 Protection level	IP65

外观和尺寸 Appearance and Dimension

PCHL-5000

可选配金属滚轮
Optional metal idler wheel

PCHL-5220

PCHL-5030

可选配金属滚轮
Optional metal idler wheel

PCHL-5300

PCHL-5050

PCHL-5330

PCHL-5100

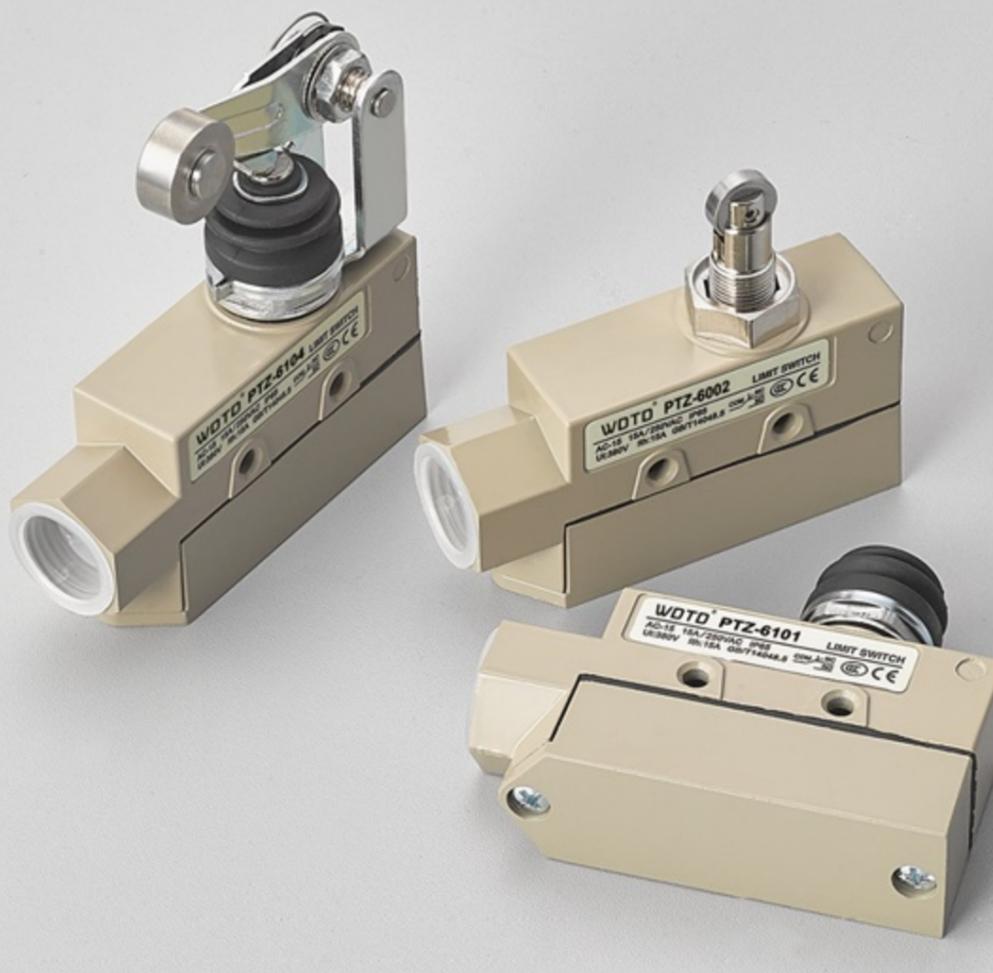
PCHL-5381

PCHL-5200

PCHL-5391

PTZ-6 卧式限位开关

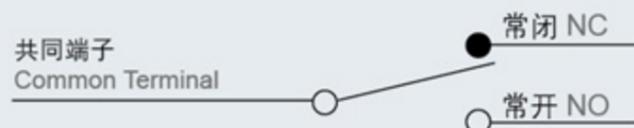
Horizontal Limit Switch



特点 Features

- 内藏 CM 卧式限位开关
 - 具有高机械强度的一体铸造铝合金外壳
 - 具耐油、防水和防压结构
 - 额定值及特性同 CM 卧式限位开关
 - 引动器种类多，方便使用
- Built-in CM horizontal limit switch
 - High mechanical strength, mainly consists of aluminum cast
 - Water-proof and oil-proof construction
 - Same rated value and characteristic with CM horizontal limit switch
 - Various actuators for different applications

接点型式 Contact Form



额定值 Ratings

额定电压 Rated Voltage	非电感性负载 Noninductive Load (A)				电感性负载 Inductive Load (A)			
	电阻性负载 Resistance Load		灯泡负载 Lamp Load		电感性负载 Inductive Load		马达负载 Motor Load	
	NC	NO	NC	NO	NC	NO	NC	NO
125VAC	5	5	1.5	0.7	3	3	2	1
250VAC	5	5	1	0.5	3	3	1.5	0.8
8VDC	5	5	3	3	5	4	3	3
14VDC	5	5	3	3	4	4	3	3
30VDC	5	5	3	3	4	4	3	3
125VDC	0.4	0.4						
250VDC	0.2	0.2						
突入电流 Inrush Current	N.C.:24A 以下、N.O.:12A 以下 N.C: below 24A, N.O: below 12A							

- 注:1、电感性负载之功率因素在 0.4 以上 (AC)。时间常数在 7msec 以下 (DC)。
2、灯泡负载之突入电流为稳定状态电流之 10 倍。马达负载之突入电流为稳定状态电流之 6 倍。
3、带弹簧系列产品，操作体的使用范围为从弹簧的前端到弹簧全长的 1/3 以内。

NOTES: 1. Inductive load has a power factor of 0.4 min.(AC) and a time constant of 7 msec. max.(DC).
2. Lamp load has an inrush current of 10 times the steady-state current, while motor load has an inrush current of 6 times the steady-state current.
3. Product with spring, its usable range of operating part is within one third of the whole spring length from the front end of spring.

动作特性 Operating Characteristics

型号	Model	PTZ	PTZ-6001	PTZ-6002	PTZ-6003	PTZ-6004	PTZ-6043	PTZ-6101	PTZ-6102	PTZ-6103	PTZ-6104	PTZ-6143
操作力	Operating force	OF(最大)(Max.)	250~350g	250~350g	570g	570g	800g	500g	640g	640g		
回弹力	Release force	RF(最小)(Min.)	114g	114g	170g	170g	240g	100g	230g	230g		
预行程	Pre-travel	PT(最大)(Max.)	0.4mm	0.5mm	4mm	4mm	2mm	1mm	5mm	5mm		
行程移动分辨率	Movement differential	MD(最大)(Max.)	0.05mm	0.05mm	0.4mm	0.4mm	0.1mm	0.12mm	0.4mm	0.4mm		
过行程	Over travel	OT(最小)(Min.)	5.5mm	3.6mm	6mm	6mm	5mm	3.5mm	6mm	6mm		
动作位置	Operating Position	OP(mm.)	38.2±0.8mm	49.7±1mm			45.8±0.8mm	49.7±0.8mm				

规格 Specifications

操作速度 Operation speed	5mm 至 0.5m/s 5mm-0.5m/s
动作频率 Operating frequency	电气:20次/分 Electical: 20 operations/min
接点电阻 Contact resistance	25mΩ 以下(初期) 25mΩ max. (initial value)
绝缘电阻 Insulation resistance	100MΩ 以上(在 500VDC 下) 100mΩ min. (below 500VDC)
电介强度 Dielectric strength	非连续端子间 1,000VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between current-carrying and non-current-carrying metal parts 载电流与无载电流零件间 1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between current-carrying and non-current-carrying metal parts 端子和接地之间 1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between each terminal and ground
振动 Vibration	10 至 55Hz, 1.5mm 双振幅 10-55Hz, 1.5mm double amplitude
冲击 Shock	机械耐久:1,000m/Sec ² (约 100G' S) 误动作耐久:300m/Sec ² (约 30G' S) Mechanical durable: 1, 000m/Sec ² (about 100G'S) Malfunction: 300m/Sec ² (about 30G'S)
周围温度 Ambient temperature	使用时:-20~+80℃(没有结冰) Using: -20~+80℃ (With no icing)
湿度 Humidity	95%RH 以下 <95% RH
电气寿命 Electrical life	500,000 次以上 500,000 operations above
保护构造 Protection level	IP66

注: 导管连接器尺寸常规默认为 M20x1.5, 配电缆接头; 导管连接器尺寸 PG13.5, 型号加 (-P), 例: PTZ-6104-P。

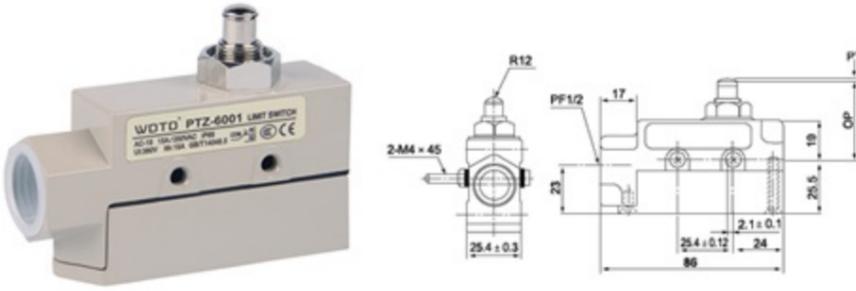
NOTES: The default size of conduit connector is M20x1.5, outfitting cable connector. Conduit connector size is PG13.5, with product model number plus (-P), example:PTZ-6104-P.

PTZ-6 卧式限位开关 Horizontal Limit Switch

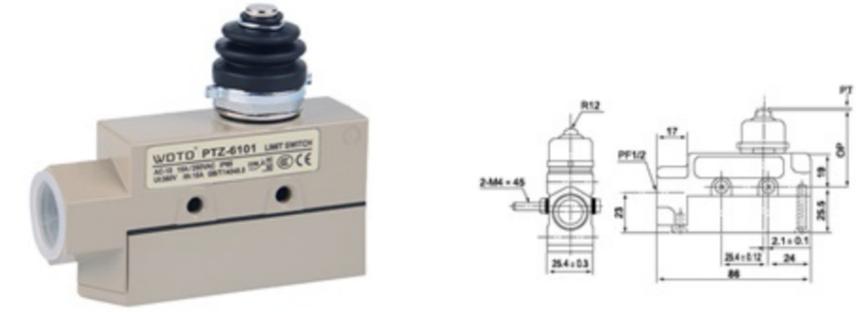


外观和尺寸 Appearance and Dimension

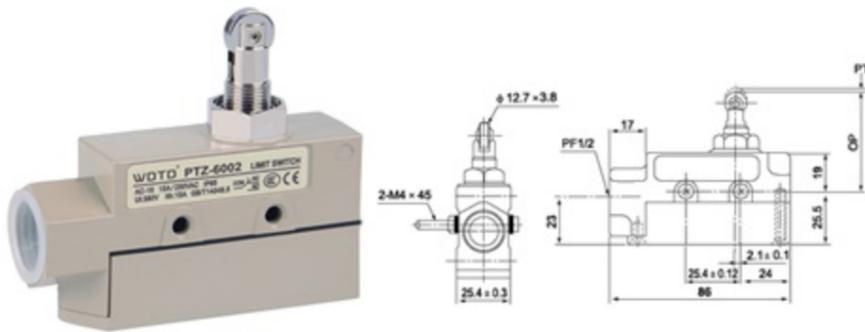
PTZ-6001



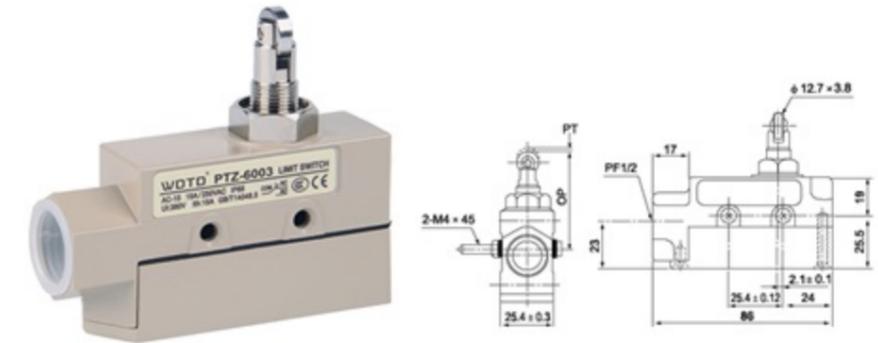
PTZ-6101



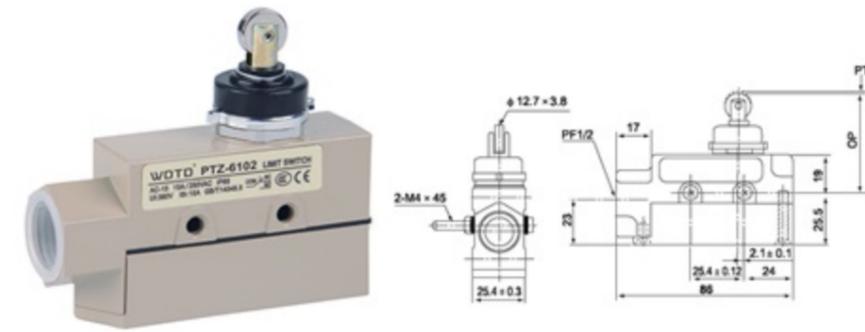
PTZ-6002



PTZ-6003



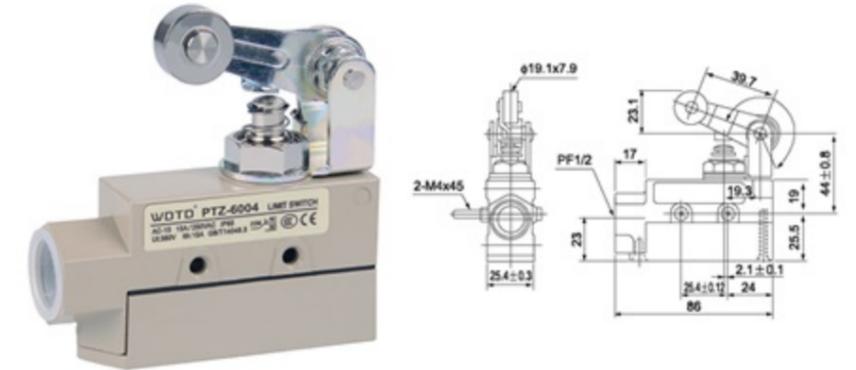
PTZ-6102



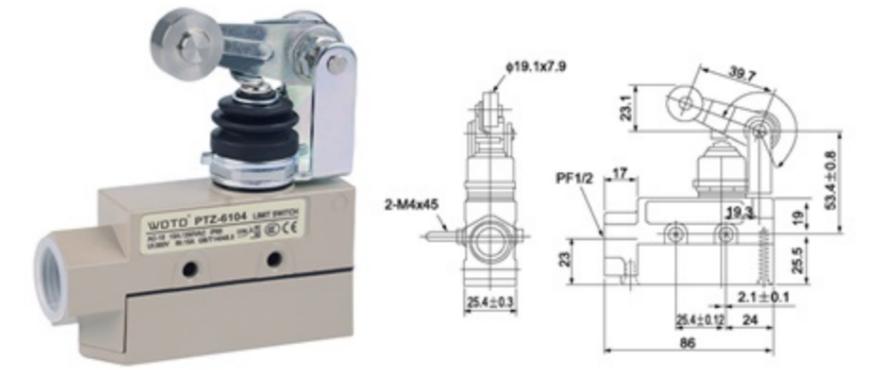
PTZ-6103



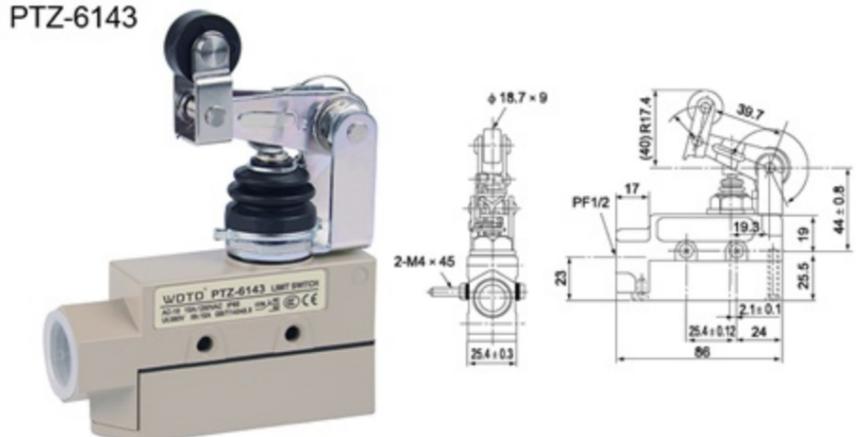
PTZ-6004



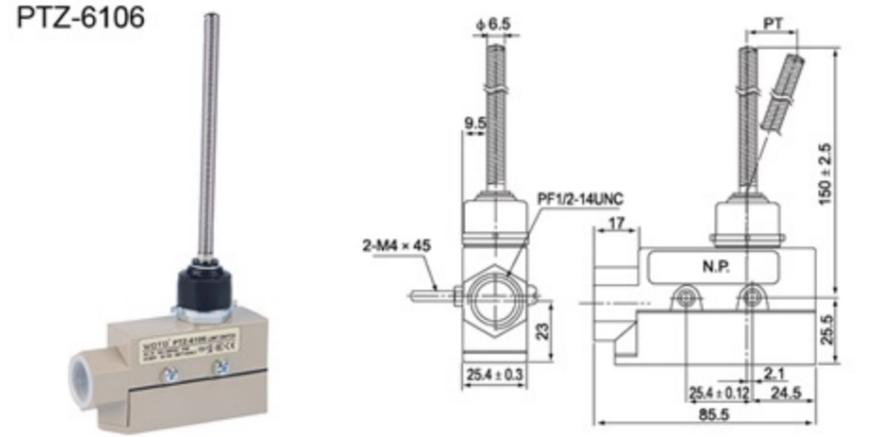
PTZ-6104



PTZ-6143



PTZ-6106



PCZ-93 立式安全门限位开关

Vertical Interlock Safety Limit Switch

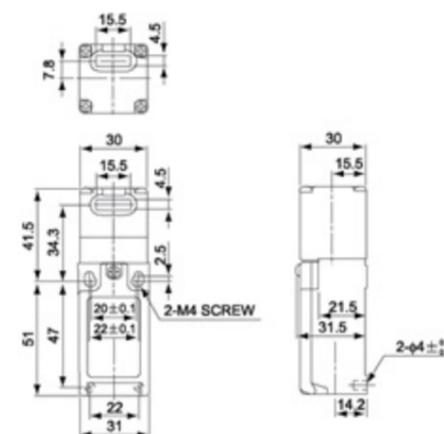


额定值 Ratings

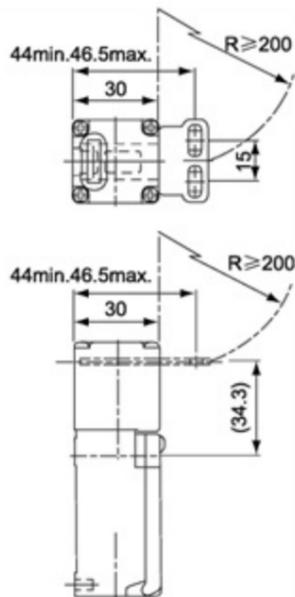
额定电压 Rated Voltage	非电感性负载 Noninductive Load (A)				电感性负载 Inductive Load (A)			
	电阻性负载 Resistance Load		灯泡负载 Lamp Load		电感性负载 Inductive Load		马达负载 Motor Load	
	NC	NO	NC	NO	NC	NO	NC	NO
125 VAC	10		3	1.5	10		5	2.5
250 VAC	10		2	1	10		3	1.5
400 VAC	10		1.5	0.8	3		1.5	0.8
8 VDC	10		6	3	10		6	6
14 VDC	10		6	3	10		6	6
30 VDC	6		4	3	6		4	4
125 VDC	0.8		0.2	0.2	0.8		0.2	0.2
250 VDC	0.4		0.1	0.1	0.4		0.1	0.1

外观和尺寸 Appearance and Dimension

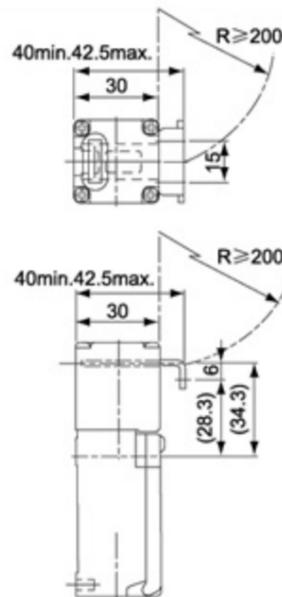
PCZ-93CPM



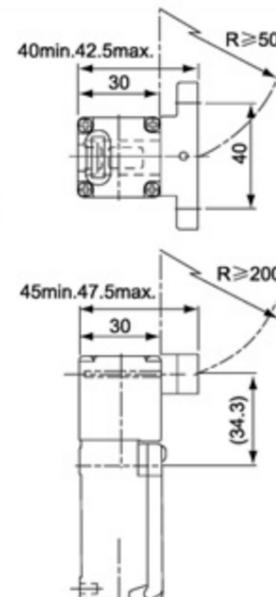
PCZ-93CPM01



PCZ-93BPM02

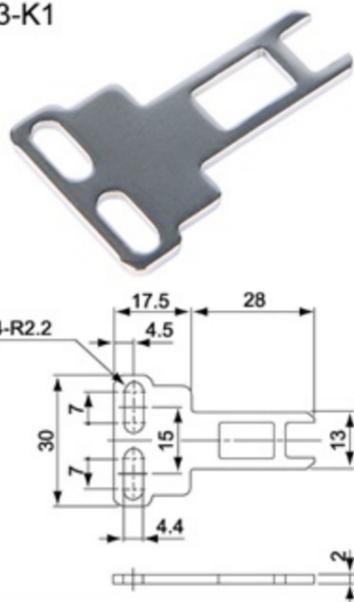


PCZ-93CPM03

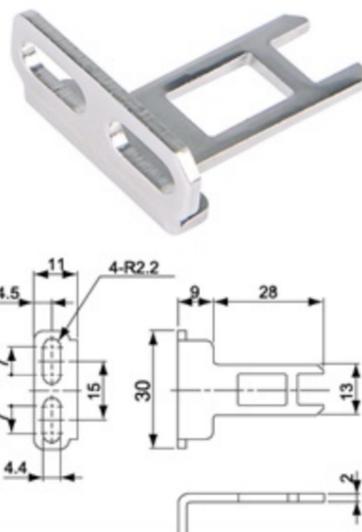


钥匙种类及尺寸 Key Dimension

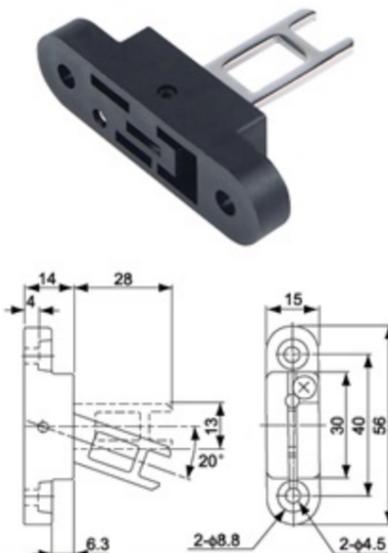
PCZ93-K1



PCZ93-K2



PCZ93-K3



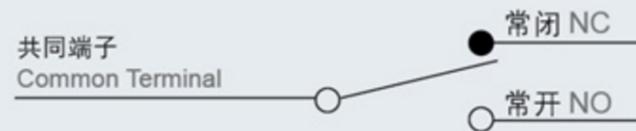
PCZ-3 立式限位开关 Vertical Limit Switch



特点 Features

- 具有高机械强度的一体铸造铝合金外壳
 - 具耐油，防水和防尘结构
 - 引动器种类多，方便使用
- High mechanical strength, mainly consists of aluminum cast
 - Water proof, oil proof and dust proof construction
 - Various actuators for different applications

接点型式 Contact Form



额定值 Ratings

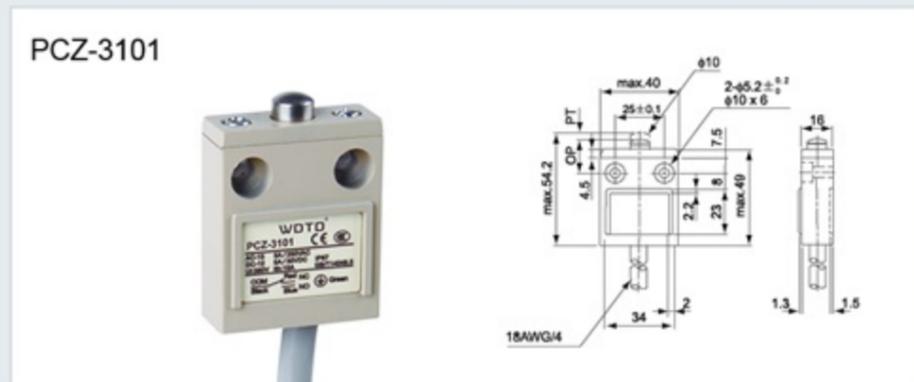
额定电压 Rated Voltage	非电感性负载 Noninductive Load (A)				电感性负载 Inductive Load (A)			
	电阻性负载 Resistance Load		灯泡负载 Lamp Load		电感性负载 Inductive Load		马达负载 Motor Load	
	NC	NO	NC	NO	NC	NO	NC	NO
125 VAC	5 (0.1)		1.5	0.7	3		2.5	1.3
250 VAC	3		1	0.5	2		1.5	0.8
8 VDC	5 (0.1)		2		5	4	3	
14 VDC	5 (0.1)		2		4	4	3	
30 VDC	4 (0.1)		2		3	3	3	
125 VDC	0.4		0.05		0.4	0.4	0.05	
250 VDC	0.2		0.03		0.2	0.2	0.03	

注：带弹簧系列产品，操作体的使用范围为从弹簧的前端到弹簧全长的 1/3 以内。
Note: Product with spring, its usable range of operating part is within one third of the whole spring length from the front end of spring.

规格 Specifications

额定值 Rating	5A 125V, 3A 250VAC
操作速度 Operating speed	1mm~1m/s(摆杆型 Swing rod type) 0.1mm~0.5m/s(柱塞型 Plunger type)
动作频率 Operating frequency	电气：30 次/分 Electrical: 30 operations/min.
接点电阻 Contact resistance	25mΩ 以下(初始值) 25mΩ max.(initial)
绝缘电阻 Insulation resistance	100mΩ 以上(在 500VDC 以下) 100mΩ min.(at 500VDC)
电介强度 Dielectric strength	不连续端子间：1000VAC, 50/60Hz, 持续 1 分钟 1000VAC, 50/60 Hz for 1 minute between terminals of the same polarity 端子和接地之间：1500VAC, 50/60Hz, 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between current-carrying and non-current-carrying metal parts 端子和无载电流金属零件之间：1500VAC, 50/60Hz, 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between each terminal and ground
冲击 Shock	10-55Hz, 1.5mm 双振幅 10 to 55Hz, 1.5mm double amplitude
冲击 Shock	机械耐久：1000mm/s ² 以上(约 100G 以上) 误动作耐久：500mm/s ² 以上(约 50G 以上) Mechanical: Approx. 1000m/s ² (Approx. 100G S) Electrical: Approx. 500m/s ² (Approx. 50G S)
使用温度 Ambient temperature	-20~+70 °C (没有结冰) Using: -20~+70 °C (With no icing)
湿度 Humidity	< 95% RH
电气寿命 Electrical life	20 万次以上 200,000 operations/min.
重量 Weight	约 360g(电缆线长 3m) 约 540g(电缆线长 5m) Approx. 360g(cable length 3m) Approx. 540g(cable length 5m)
防水等级 Protection level	IP67

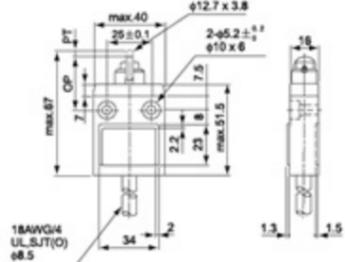
外观和尺寸 Appearance and Dimension



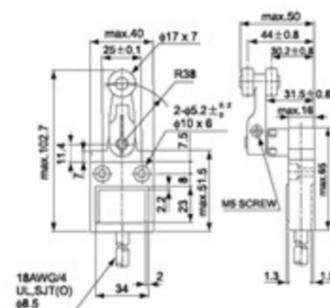
PCZ-3 立式限位开关 Vertical Limit Switch

外观和尺寸 Appearance and Dimension

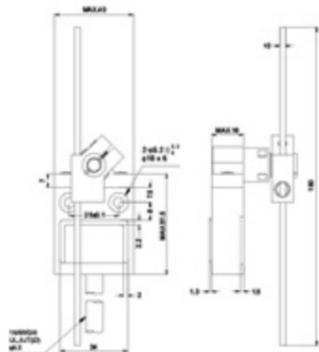
PCZ-3103



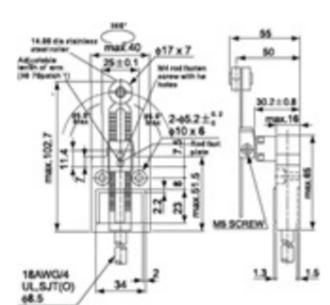
PCZ-3104



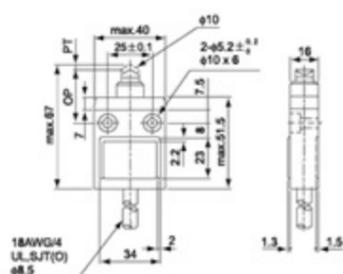
PCZ-3107



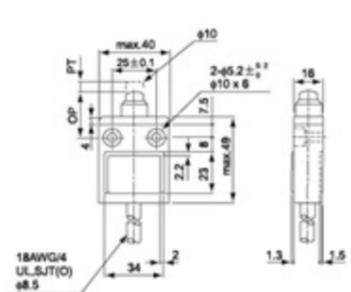
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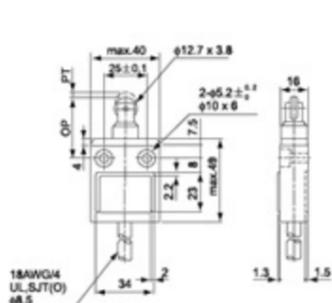
PCZ-3110



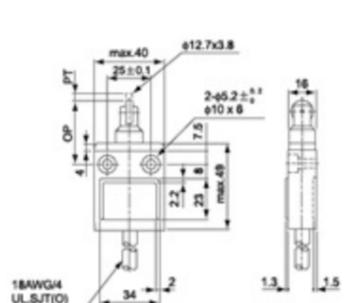
PCZ-3111



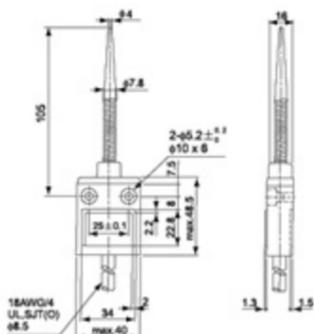
PCZ-3112



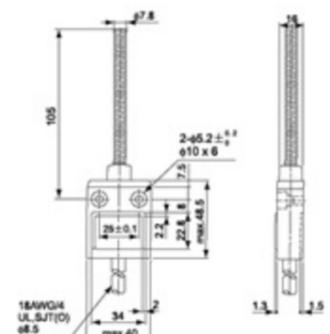
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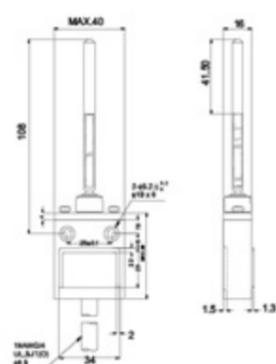
PCZ-3166



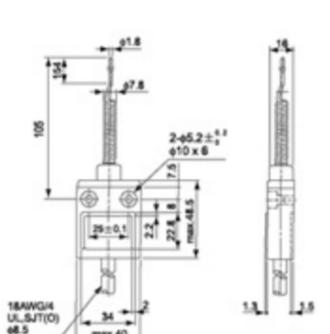
PCZ-3167



PCZ-3168



PCZ-3169





特点 Features

- 双回路型限位开关
 - 塑料经济型限位开关
 - 体积小, 可防水、防油
 - 内藏触点座有双簧片机构, 机械寿命更长
 - 具有较大的过行程
 - 引动器种类多, 方便使用
- Double circuit type of limit switch
 - Economic plastic type of limit switch
 - Small size, water-proof and oil-proof construction
 - Built-in contact box has double-spring and long mechanical life
 - Smooth operation with larger over travel distance
 - Various actuators for different applications

接点型式 Contact Form



额定值 Ratings

额定电压 Rated Voltage	非电感性负载 Noninductive Load (A)				电感性负载 Inductive Load (A)			
	电阻性负载 Resistance Load		灯泡负载 Lamp Load		电感性负载 Inductive Load		马达负载 Motor Load	
	NC	NO	NC	NO	NC	NO	NC	NO
125VAC	5	5	1.5	0.7	3	3	2	1
250VAC	5	5	1	0.5	3	3	1.5	0.8
8VDC	5	5	3	3	5	4	3	3
14VDC	5	5	3	3	4	4	3	3
30VDC	5	5	3	3	4	4	3	3
125VDC	0.4	0.4						
250VDC	0.2	0.2						
突入电流 Inrush Current	N.C.:24A 以下、N.O.:12A 以下 N.C: below 24A, N.O: below 12A							

注: 1、电感性负载之功率因素在 0.4 以上 (AC)。时间常数在 7msec 以下 (DC)。
2、灯泡负载之突入电流为稳定状态电流之 10 倍。马达负载之突入电流为稳定状态电流之 6 倍。
3、带弹簧系列产品, 操作体的使用范围为从弹簧的前端到弹簧全长的 1/3 以内。

NOTES: 1. Inductive load has a power factor of 0.4 min.(AC) and a time constant of 7 msec. max.(DC).
2. Lamp load has an inrush current of 10 times the steady-state current, while motor load has an inrush current of 6 times the steady-state current.
3. Product with spring, its usable range of operating part is within one third of the whole spring length from the front end of spring.

动作特性 Operating Characteristics

型号	Model	PCLS	101 301	102/103 302/303	111 311	121/121M 321/321M	127 327	131/131M 331/331M	161 361	171 371	181 381	191 391
操作力	Operating force	OF (最大)(Max.)	700g	700g	700g	500g	700g	500g	100g	100g	100g	500g
回弹力	Release force	RF (最小)(Min.)	200g	200g	200g	100g	200g	100g	40g	40g	40g	100g
预行程	Pre-travel	PT (最大)(Max.)	1.8mm	1.8mm	1.8mm	20°	1.8mm	20°	30mm	30mm	30mm	20°
触发位置	Tripping position	TP ± 10%	2.0mm	2.0mm	2.0mm	22.5°	2.0mm	22.5°	22.5°	22.5°	22.5°	22.5°
行程移动分辨率	Movement differential	MD(最大)(Max.)	1.2mm	1.2mm	1.2mm	10°	1.2mm	10°	14°	14°	14°	10°
过行程	Over travel	OT (最小)(Min.)	3.7mm	3.7mm	3.7mm	75°	3.7mm	75°	20mm	20mm	20mm	75°
总行程	Total travel	TT (最小)(Min.)	5.5mm	5.5mm	5.5mm	95°	5.5mm	95°	50mm	50mm	50mm	95°
摇臂转动分角度	Rotary indexing					22.5°		22.5°				22.5°

规格 Specifications

操作速度 Operation speed	5mm 至 0.5m/s 5mm-0.5m/s
动作频率 Operating frequency	电气:30 次/分 Electical: 30 operations/min
接点电阻 Contact resistance	25mΩ 以下 (初期) 25mΩ max. (initial value)
绝缘电阻 Insulation resistance	100MΩ 以上 (在 500VDC 下) 100mΩ min. (below 500VDC)
电介强度 Dielectric strength	非连续端子间 1,000VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between current-carrying and non-current-carrying metal parts 载电流与无载电流零件间 1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between current-carrying and non-current-carrying metal parts 端子和接地之间 1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between each terminal and ground
振动 Vibration	10 至 55Hz, 1.5mm 双振幅 10-55Hz, 1.5mm double amplitude
冲击 Shock	机械耐久: 1,000m/Sec ² (约 100G'S) 误动作耐久: 300m/Sec ² (约 30G'S) Mechanical durable: 1, 000m/Sec ² (about 100G'S) Malfunction: 300m/Sec ² (about 30G'S)
周围温度 Ambient temperature	使用时: -20~+70℃ (没有结冰) Using: -20~+70℃ (With no icing)
湿度 Humidity	95%RH 以下 <95% RH
电气寿命 Electrical life	500,000 次以上 500,000 operations above
保护构造 Protection level	IP66

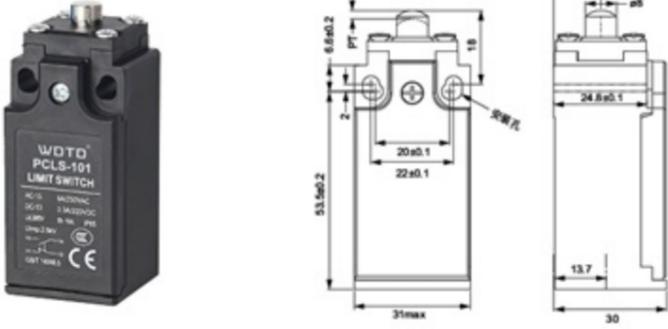
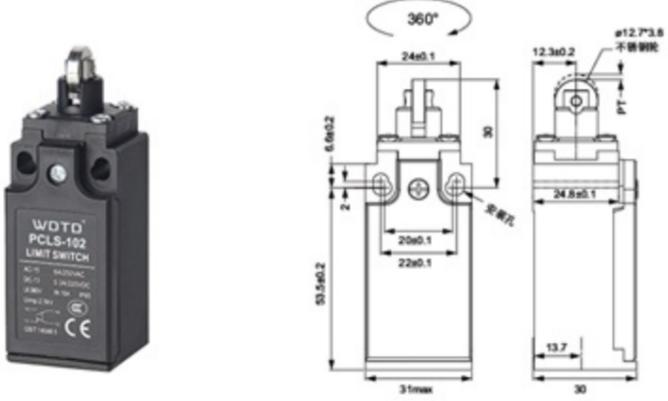
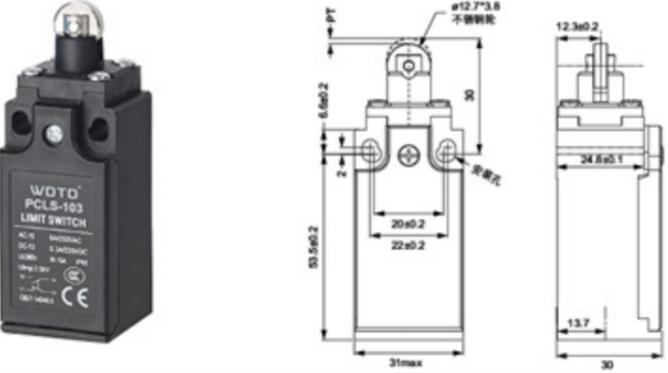
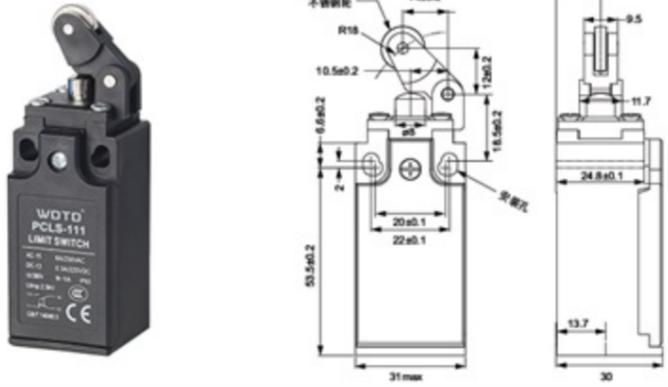
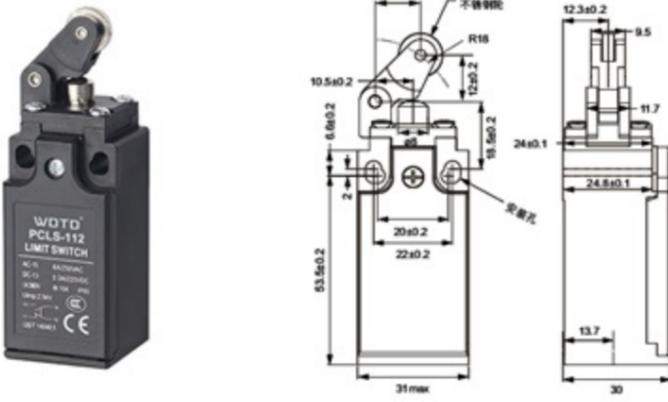
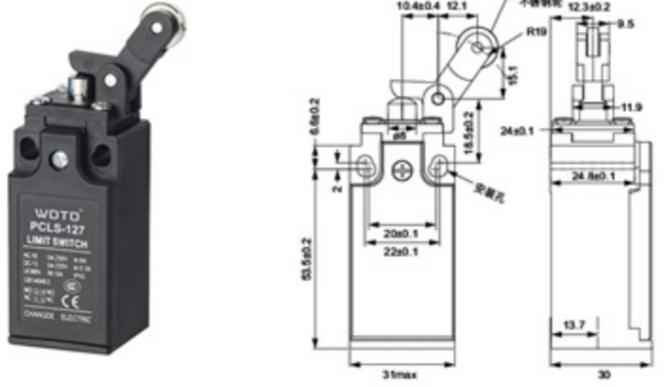
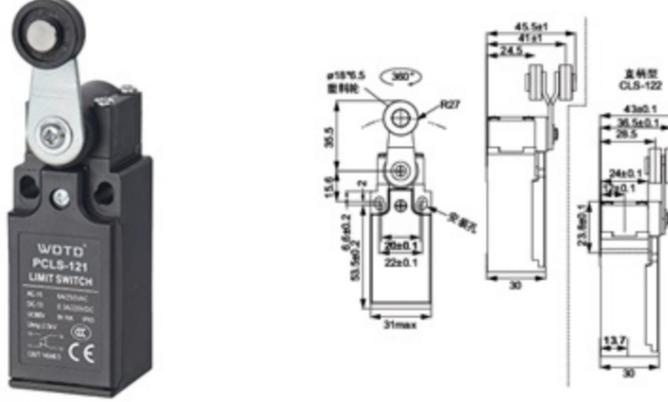
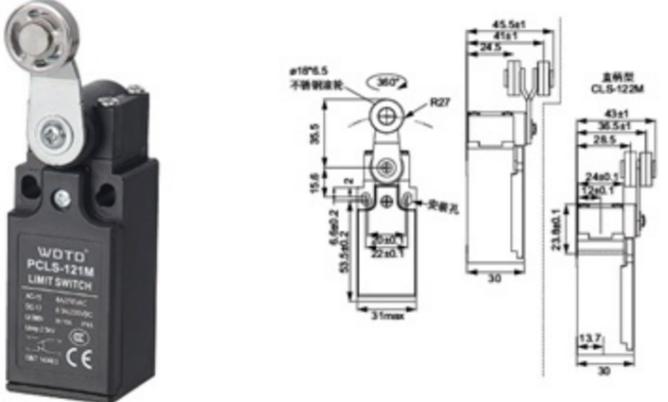
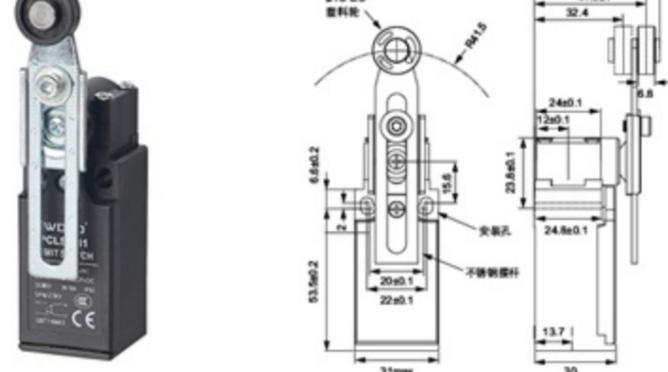
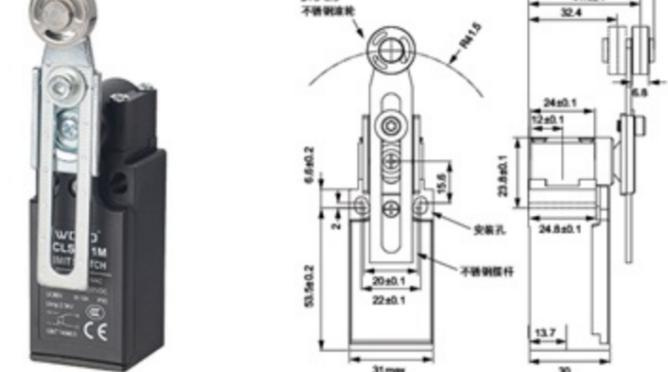
注: 导管连接器尺寸常规默认为 M20x1.5; 导管连接器尺寸 PG13.5, 型号加 (-P), 例: PCLS-103-P。

NOTES: The default size of conduit connector is M20x1.5, outfitting cable connector. Conduit connector size is PG13.5, with product model number plus (-P), example:PCLS-103-P.

PCLS-1 立式限位开关 (经济型)

Vertical Limit Switch (Economical)

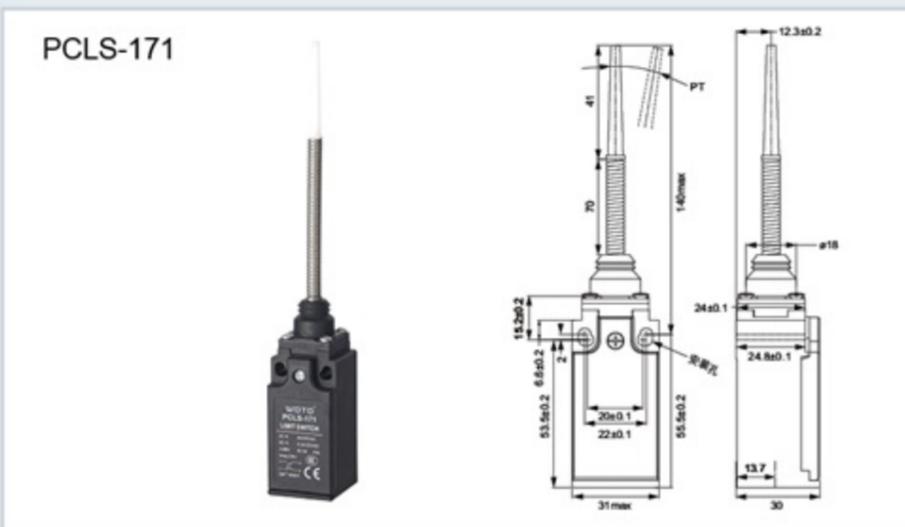
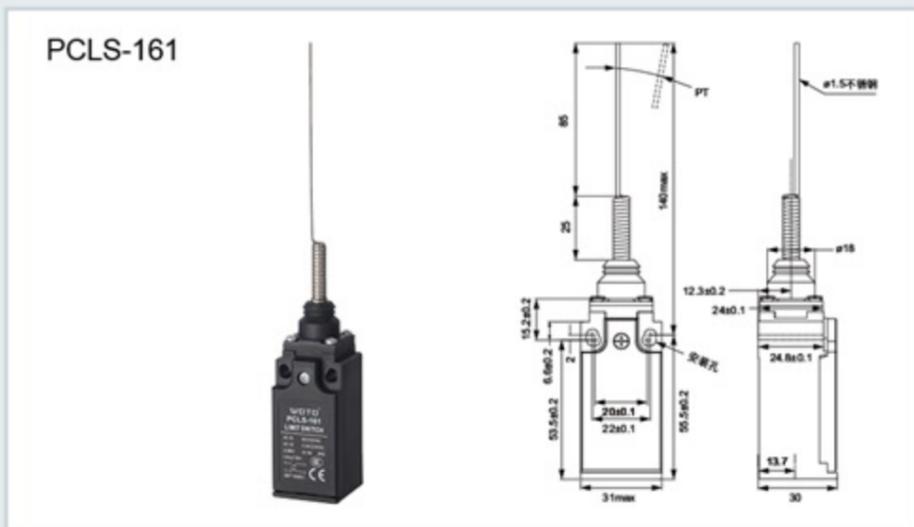
外观和尺寸 Appearance and Dimension

<p>PCLS-101</p>  <p>Product photo and technical drawings for PCLS-101. Dimensions include: 53.5±0.2, 6.6±0.2, 2, 20±0.1, 22±0.1, 12.3±0.2, 24.8±0.1, 13.7, 31max, 30.</p>	<p>PCLS-102</p>  <p>Product photo and technical drawings for PCLS-102. Dimensions include: 360°, 24±0.1, 6.6±0.2, 2, 20±0.1, 22±0.1, 12.3±0.2, 24.8±0.1, 13.7, 31max, 30, #12.7x3.8 不锈钢销, 19.</p>
<p>PCLS-103</p>  <p>Product photo and technical drawings for PCLS-103. Dimensions include: 360°, #12.7x3.8 不锈钢销, 6.6±0.2, 2, 20±0.2, 22±0.2, 12.3±0.2, 24.8±0.1, 13.7, 31max, 30.</p>	<p>PCLS-111</p>  <p>Product photo and technical drawings for PCLS-111. Dimensions include: #12.7x3.8 不锈钢销, 14±0.2, 10.5±0.2, 6.6±0.2, 2, 20±0.1, 22±0.1, 12.3±0.2, 24.8±0.1, 13.7, 31max, 30, R18, 11.7, 9.5.</p>
<p>PCLS-112</p>  <p>Product photo and technical drawings for PCLS-112. Dimensions include: 14±0.2, #12.7x3.8 不锈钢销, R18, 10.5±0.2, 6.6±0.2, 2, 20±0.2, 22±0.2, 12.3±0.2, 24.8±0.1, 13.7, 31max, 30, 24±0.1, 11.7, 9.5.</p>	<p>PCLS-127</p>  <p>Product photo and technical drawings for PCLS-127. Dimensions include: 10.4±0.4, 12.1, #12.7x3.8 不锈钢销, R19, 10.4±0.4, 12.1, 6.6±0.2, 2, 20±0.1, 22±0.1, 12.3±0.2, 24.8±0.1, 13.7, 31max, 30, 18.5±0.2, 24±0.1, 11.9.</p>
<p>PCLS-121</p>  <p>Product photo and technical drawings for PCLS-121. Dimensions include: #18x6.5 塑料销, 360°, R27, 15.6, 36.5, 6.6±0.2, 2, 20±0.1, 22±0.1, 45.5±1, 41±1, 24.5, 43±0.1, 36.5±0.1, 28.5, 24±0.1, 20±0.1, 23±0.1, 13.7, 31max, 30, 直柄型 CLS-122.</p>	<p>PCLS-121M</p>  <p>Product photo and technical drawings for PCLS-121M. Dimensions include: #18x6.5 不锈钢销, 360°, R27, 15.6, 36.5, 6.6±0.2, 2, 20±0.1, 22±0.1, 45.5±1, 41±1, 24.5, 43±1, 36.5±1, 28.5, 24±0.1, 20±0.1, 23±0.1, 13.7, 31max, 30, 直柄型 CLS-122M.</p>
<p>PCLS-131</p>  <p>Product photo and technical drawings for PCLS-131. Dimensions include: #18x6.5 塑料销, 6.6±0.2, 2, 20±0.1, 22±0.1, 47±1, 41.6±1, 32.4, 24±0.1, 12±0.1, 23±0.1, 24.8±0.1, 13.7, 31max, 30, 15.6, 23.8±0.1, 6.8, 不锈钢销杆.</p>	<p>PCLS-131M</p>  <p>Product photo and technical drawings for PCLS-131M. Dimensions include: #18x6.5 不锈钢销, 6.6±0.2, 2, 20±0.1, 22±0.1, 47±1, 41.6±1, 32.4, 24±0.1, 12±0.1, 23±0.1, 24.8±0.1, 13.7, 31max, 30, 15.6, 23.8±0.1, 6.8, 不锈钢销杆.</p>

PCLS-1 立式限位开关 (经济型) Vertical Limit Switch(Economical)

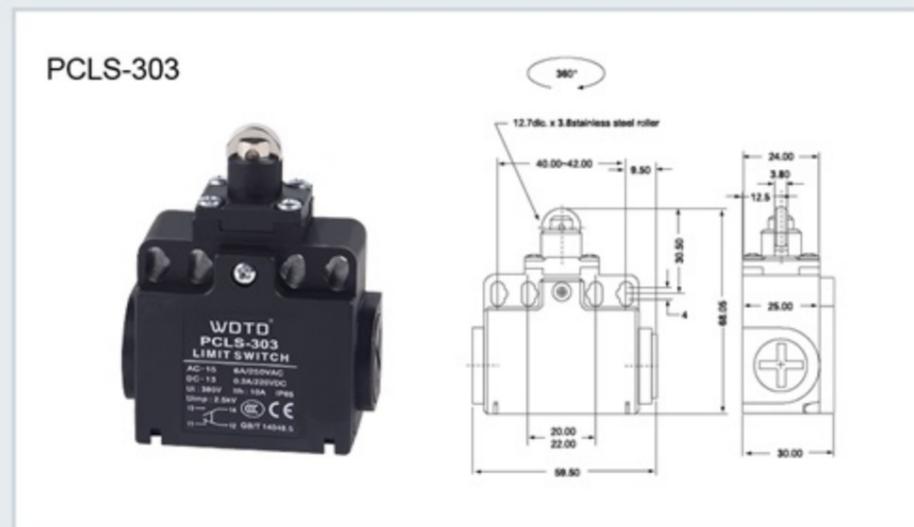
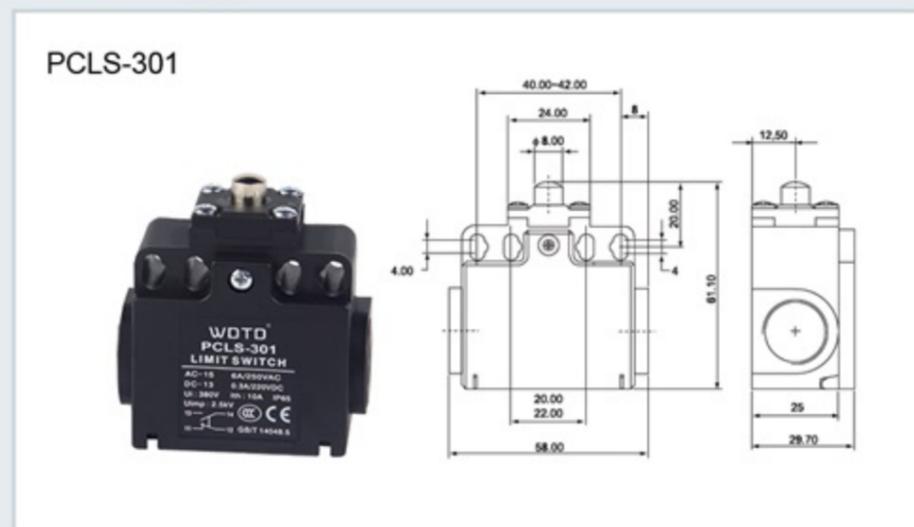


外观和尺寸 Appearance and Dimension



PCLS-3 立式限位开关 (经济型) Vertical Limit Switch(Economical)

外观和尺寸 Appearance and Dimension



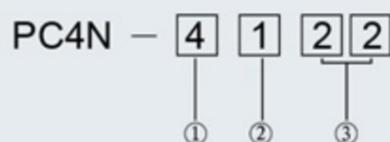
PCLS-3 立式限位开关 (经济型) Vertical Limit Switch (Economical)

外观和尺寸 Appearance and Dimension

<p>PCLS-312</p>	<p>PCLS-327</p>
<p>PCLS-321</p>	<p>PCLS-321M</p>
<p>PCLS-331</p>	<p>PCLS-331M</p>
<p>PCLS-361</p>	<p>PCLS-371</p>
<p>PCLS-381</p>	<p>PCLS-391</p>



型号说明 Model Number Structure



项目 Item	代号 Code	说明 Description
① 导管 / 连接器尺寸 Conduit / connector size	1	Pg13.5 (1 导管型) Pg13.5 (1 conduit type)
	4	M20 (1 导管型) M20 (1 conduit type)
	5	Pg13.5 (2 导管型) Pg13.5 (2 conduits type)
	8	M20 (2 导管型) M20 (2 conduits type)
② 内藏开关 Built-in switch	1	1NC/1NO (速动型) 1NC/1NO (quick-action type)
	2	2NC (速动型) 2NC (quick-action type)
	A	1NC/1NO (慢动型) 1NC/1NO (slow-action type)
	B	2NC (慢动型) 2NC (slow-action type)
③ 头部及传动杆 Head and driving rod	20	滚珠摆杆型 (树脂摆杆, 树脂滚珠) Roller lever (resin lever, resin ball)
	22	滚珠摆杆型 (金属摆杆, 树脂滚珠) Roller lever (metal lever, resin ball)
	25	滚珠摆杆型 (金属摆杆, 金属滚珠) Roller lever (metal lever, metal resin ball)
	2G	可调滚珠摆杆, Form Lock (金属摆杆, 树脂滚珠) Adjustable roller lever, Form Lock (metal lever, resin ball)
	2H	可调滚珠摆杆, Form Lock (金属摆杆, 橡胶滚珠) Adjustable roller lever, Form Lock (metal lever, rubber ball)
	2M	可调滚珠摆杆, Form Lock (金属摆杆, 金属滚珠) Adjustable roller lever, Form Lock (metal lever, metal resin ball)
	31	顶部柱塞型 Top plunger type
	32	顶部柱塞滚珠型 Top plunger ball type
	62	单侧悬臂滚珠型 (水平) Unilateral cantilever ball type (horizontal)
	72	单侧悬臂滚珠型 (垂直) Unilateral cantilever ball type (vertical)
	80	触须型 Whisker type
87	塑料棒型 Plastic stick type	

注: 导管连接器尺寸常规默认为 M20x1.5。

NOTE: The default size of conduit connector is M20x1.5.

特点 Features

- 强制断开动作装置 (仅 NC 接点), 可以在发生像接点熔断等故障时断开接点
- 强化顶部密封结构, 以提高密封性能
- 内藏接点座具有速动型: 1NC/1NO、2NC; 慢动型: 1NC/1NO、2NC
- Forced open action device (NC contacts only), to disconnect the contact when the contact has fusing and other failures
- Strengthened top seal structure improves the sealing performance
- Built-in contact holder has fast-action type: 1NC/1NO; Slow-action: 1NC/1NO and 2NC

规格 Specifications

保护等级 Protection level	IP66	
寿命 Life	电气 Electrical	50 万次以上 (AC250V 3A、电阻负载) More than 500,000 times (AC250V 3A, resistive load)
		30 万次以上 (AC250V 10A、电阻负载) More than 300,000 times (AC250V 10A, resistive load)
操作速度 Operating speed	1mm-0.5m/s (C4N-4120 型)	
动作频率 Operating frequency	电气: 30 次/分 Electrical: 30 operations/min	
接触电阻 Contact resistance	25mΩ 以下 25 mΩ or less	
最小使用负载 Minimum working load	DC5V 1mA 电阻负载 (N 标准参考值) 1mA resistive load below DC5V (N standard reference value)	
额定绝缘电压 (UI) Rated insulation voltage (Ui)	300V	
防触电保护等级 Electric shock protection grade	Class II (双重绝缘) Class II (double insulated)	
污染度 (使用环境) Pollution degree (Using conditions)	污染度 3 (EN60947-5-1) Pollution degree 3 (EN60947-5-1)	
耐电压 Withstand voltage (EN60947-5-1)	同极端子间: 2.5kV Between homopolar terminals: 2.5kV	
	异极端子间: 4kV Between heteropolar terminals: 2.5kV	
	各端子和非充电金属部件间: 6kV Between terminals and uncharged metal parts: 6kV	
绝缘电阻 Insulation resistance	100MΩ 以上 Above 100MΩ	
接点间隙 Contact gap	最小 2 × 0.5mm 速动型 最小 2 × 2mm 慢动型 Minimum 2 × 0.5mm quick-action type, Minimum 2 × 2mm slow-action type	
振动 Vibration	误动作 Malfunction	10 ~ 55Hz 0.75mm 单振幅 10 ~ 55Hz 0.75mm single amplitude
	耐久 Duration	1,000m/s ²
冲击 Impact	误动作 Malfunction	300m/s ²
	耐久 Duration	1,000m/s ²
环境温度 Ambient temperature	使用时: -20~+70℃ (没有结冰) Using: -20~+70℃ (With no icing)	
环境湿度 Ambient humidity	95%RH 以下 Less than 95% RH	
质量 Weight	约 82g (C4N-1120) About 82g (D4N-1120) 约 99g (C4N-5120) About 99g (D4N-5120)	

注 1. 上述值为初始值。

注 2. 一旦接点连接标准负载后, 就不可用于连接更小容量的负载。否则可能导致接点表面粗糙, 从而失去接触可靠性。

*1. 保护等级是根据 (EN60947-5-1) 规格的测试法得出的。使用前务必在实际使用的环境、条件下确认其密封性。开关盒本体具有防尘、防油构造, 但应尽可能保持头部在没有碎屑粉尘、油污、化学品的场所进行使用。否则可能导致过早磨损、损坏或故障。

*2. 耐久性的条件是使用环境温度 5℃ ~ 35℃、使用环境湿度 40% ~ 70% RH。其他详细条件请另行查询。

*3. 使用环境温度为 35℃ 以上时, 禁止使用 2 回路以上的 3A AC250V 负载。

*4. 这个值会因为开关频率、环境条件、可靠性等级等因素的影响而不同。请事先在实际负载上进行确认。

Note 1. The above values are initial values.

Note 2. Once the contact is connected to a standard load, it can not be used to connect a smaller load. If so, the contact may result in rough surface, thus losing contact reliability.

*1. The protection level is gotten based on test method of (EN60947-5-1). Please make sure its sealing under actual environmental conditions before use. The switch box has dust and oil resistance structure, but it should be used in places without dust, oil and chemicals. Otherwise it may lead to premature wear, damage or malfunction.

*2. The durability is for ambient temperature of 5℃ ~ 35℃ and humidity of 40% to 70% RH. For additional details, please contact us.

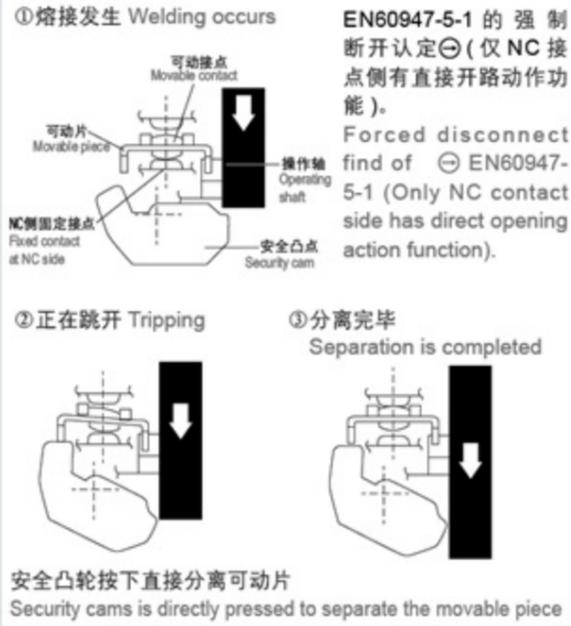
*3. When the ambient temperature is above 35℃, more than 2 circuits 3A 250VAC loads are prohibited.

*4. The values will vary with different switching frequency, environmental conditions, reliability level and other factors. Please confirm on the actual load in advance.

强制断开构造 Forced Disconnecting Mechanism

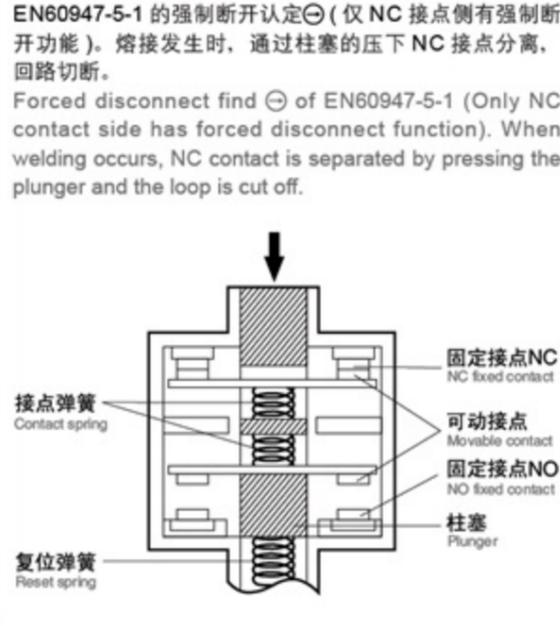
1NC、1NO 接点 (速动型)

1NC and 1NO contacts (quick-action type)



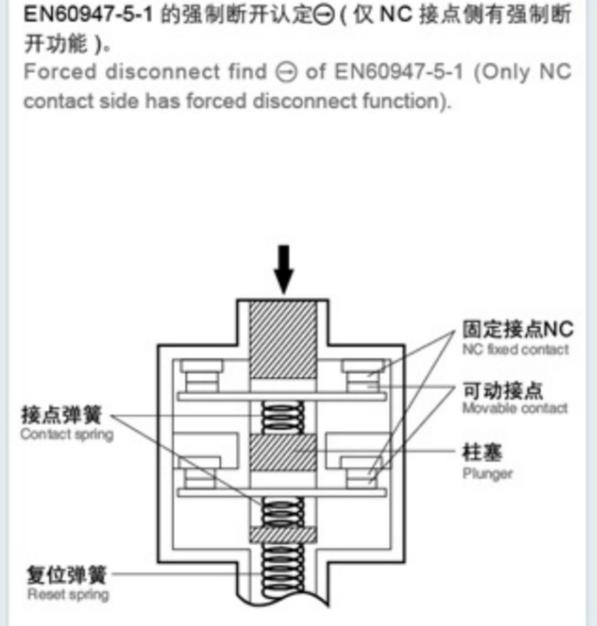
1NC、1NO 接点 (慢动型)

1NC and 1NO contacts (slow-action type)



2NC 接点 (慢动型)

2NC contacts (slow-action type)



接点形式 Contact Form

型号 Model	接点 Contact	接点形式 Contact form	动作模式 Operation mode	说明 Explanation
PC4N-□1□	1NC/1NO (速动型) 1NC/1NO (Quick-action type)			仅 NC 接点 (31-32) 具有强制断开功能 (⊖)。 Only NC contact (31-32) has forced disconnect function (⊖) 接点 (13-14) 和 (31-32) 可作异极使用。 Contacts (13-14) and (31-32) can be used as heteropoles.
PC4N-□2□	2NC (速动型) 2NC (Quick-action type)			仅 NC 接点 (11-12、31-32) 具有强制断开功能 (⊖)。 Only NC contact (11-12、31-32) has forced disconnect function (⊖) 接点 (11-12) 和 (31-32) 可作异极使用。 Contacts (11-12) and (31-32) can be used as heteropoles.
PC4N-□A□	1NC/1NO (慢动型) 1NC/1NO (Slow-action type)			仅 NC 接点 (11-12) 具有强制断开功能 (⊖)。 Only NC contact (11-12) has forced disconnect function (⊖) 接点 (11-12) 和 (33-34) 可作异极使用。 Contacts (11-12) and (33-34) can be used as heteropoles.
PC4N-□B□	2NC (慢动型) 2NC (Slow-action type)			仅 NC 接点 (11-12、31-32) 具有强制断开功能 (⊖)。 Only NC contact (11-12、31-32) has forced disconnect function (⊖) 接点 (11-12) 和 (31-32) 可作异极使用。 Contacts (11-12) and (31-32) can be used as heteropoles.

动作特性 Operating Characteristics

速动型 (1NC/1NO)(2NC)、慢动型 (2NC)

Quick-action type (1NC/1NO)(2NC), slow-action type (2NC)

动作特性 Action characteristics	型号 Model	型号 Model											
		PC4N-□120 PC4N-□220 PC4N-□B20	PC4N-□122 PC4N-□222 PC4N-□B22	PC4N-□125 PC4N-□225 PC4N-□B25	PC4N-□226 PC4N-□B26	PC4N-□131 PC4N-□231 PC4N-□B31	PC4N-□132 PC4N-□232 PC4N-□B32	PC4N-□162 PC4N-□262 PC4N-□B62	PC4N-□172 PC4N-□272 PC4N-□B72	PC4N-□12H PC4N-□22H PC4N-□B2H	PC4N-□12G PC4N-□12M PC4N-□22G PC4N-□B2G ⁴	PC4N-□□80	PC4N-□□87
动作力 Action force	OF	最大 Max.	5.0N			6.5N	6.5N	5.0N	5.0N	4.5N	1.5N	1.5N	
回复力 Restore force	RF	最小 Min.	0.5N			1.5N	1.5N	0.8N	0.8N	0.4N			
预行程 Pretravel	PT		18~27°			2mm	2mm	4mm	4mm	18 ~ 27°	15°	15°	
过行程 Overtravel	OT	最小 Min.	40°			4mm	4mm	5mm	5mm	40°			
响应差的行程 Poor response travel	MD	最大 Max.*1	14°			1mm	1mm	1.5mm	1.5mm	14°			
动作位置 Action position	OP		—			18.2±0.5mm	28.6±0.8mm	37±0.8mm	27±0.8mm	—			
总行程 Total travel	TT	*2	(80°)			(6mm)	(6mm)	(9mm)	(9mm)	(80°)			
强制断开预行程 Forced disconnected pretravel	DOT	最小 Min.*3	50°			3.2mm	3.2mm	5.8mm	4.8mm	50°			
强制断开力 Forced disconnected force	DOF	最小 Min.*3	20N			20N	20N	20N	20N	20N			

注 2NC 接点的闭路·开路动作的同时性会有参差, 使用时请注意确认。
*1. 仅限速动型。
*2. 为参考值。
*3. 仅限慢动型。为了安全使用, 请确保所有值在最大或最小范围内。
*4. 为摆杆长度 32 mm 时的特性。

Note The simultaneity of ON / OFF operation of 2NC contacts have difference, please make sure before using it.
*1. Only for quick-action type.
*2. Reference values.
*3. Only for slow-action type. For safe use, please make sure that all values are within the range of maximum or minimum.
*4. The property value when length of lever is 32mm.

动作特性 Operating Characteristics

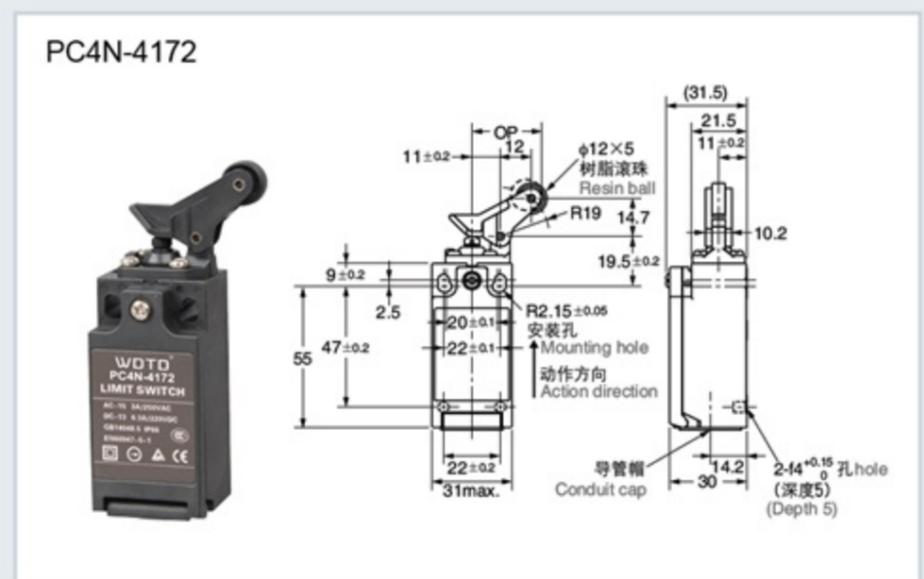
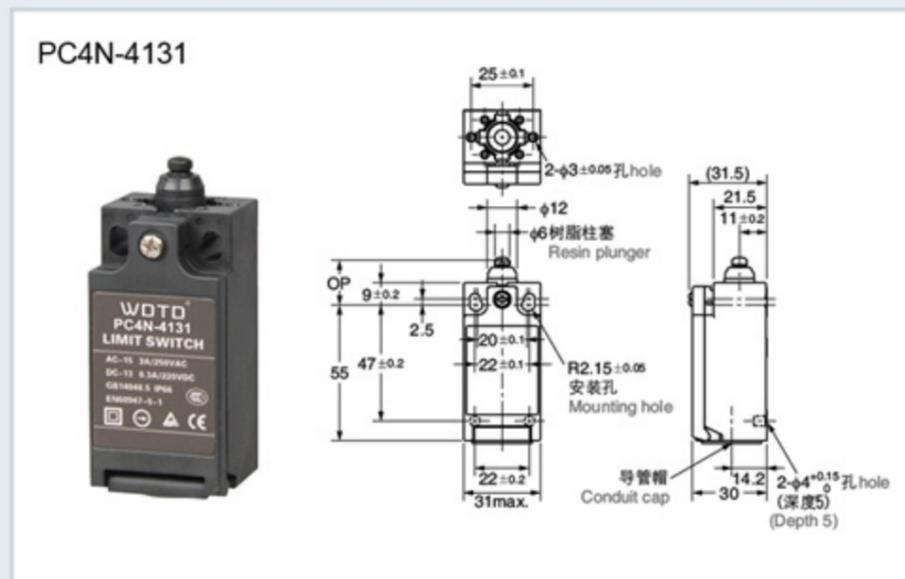
■ 慢动型 (1NC/1NO) Slow-action type (1NC/1NO)

动作特性 Action characteristics		型号 Model	PC4N- □ A20	PC4N- □ A22	PC4N- □ A25	PC4N- □ A26	PC4N- □ A31	PC4N- □ A32	PC4N- □ A62	PC4N- □ A72	PC4N- □ A2H	PC4N- □ A2G*8
动作力 Action force	OF	最大 Max.	5.0N				6.5N	6.5N	5.0N	5.0N	4.5N	
回复力 Restore force	RF	最小 Min.	0.5N				1.5N	1.5N	0.8N	0.8N	0.4N	
预行程 Pretravel	PT	*1	18 ~ 27°				2mm	2mm	4mm	4mm	18 ~ 27°	
		(2nd)*2	(44°)				(2.9mm)	(2.9mm)	(5.2mm)	(4.3mm)	(44°)	
		*3	27.5 ~ 36.5°				2.8mm	2.8mm	4mm	4mm	27.5 ~ 36.5°	
		(2nd)*4	(18°)				(1mm)	(1mm)	(1.5mm)	(1.5mm)	(18°)	
过行程 Overtravel	OT	最小 Min.	40°				4mm	4mm	5mm	5mm	40°	
动作位置 Action position	OP		—				18.2±0.5mm	28.6±0.8mm	37±0.8mm	27±0.8mm	—	
	OP	*5	—				17.4±0.5mm	28±0.8mm	36±0.8mm	26.1±0.8mm	—	
总行程 Total travel	TT	*6	(80°)				(6mm)	(6mm)	(9mm)	(9mm)	(80°)	
强制断开预行程 Forced disconnected pretravel	DOT	最小 Min.*7	50°				3.2mm	3.2mm	5.8mm	4.8mm	50°	
强制断开力 Forced disconnected force	DOF	最小 Min.*7	20N				20N	20N	20N	20N	20N	

- *1. NC 接点呈开路。
- *2. NO 接点呈闭路。
- *3. 仅限 MBB 型。
- *4. 为 MBB 型的参考值。
- *5. 仅限 MBB 型。
- *6. 为参考值。
- *7. 为了安全使用, 请确保所有值在最大或最小范围内。
- *8. 为摆杆长度 32 mm 时的特性。

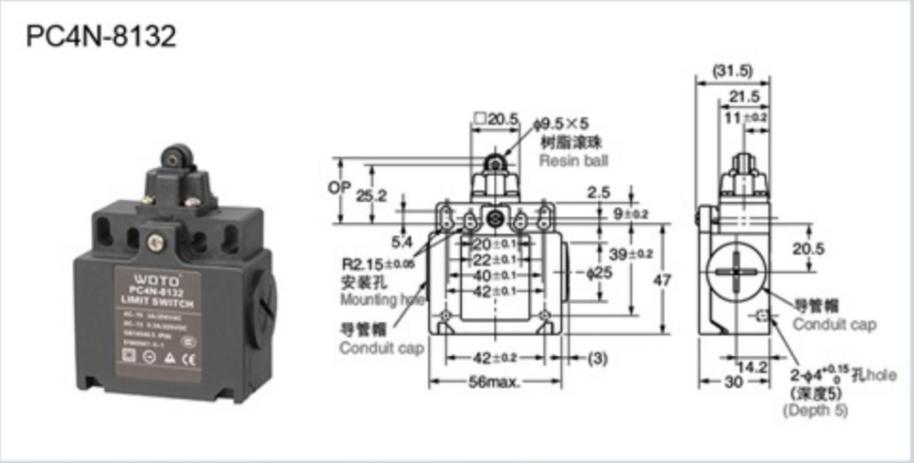
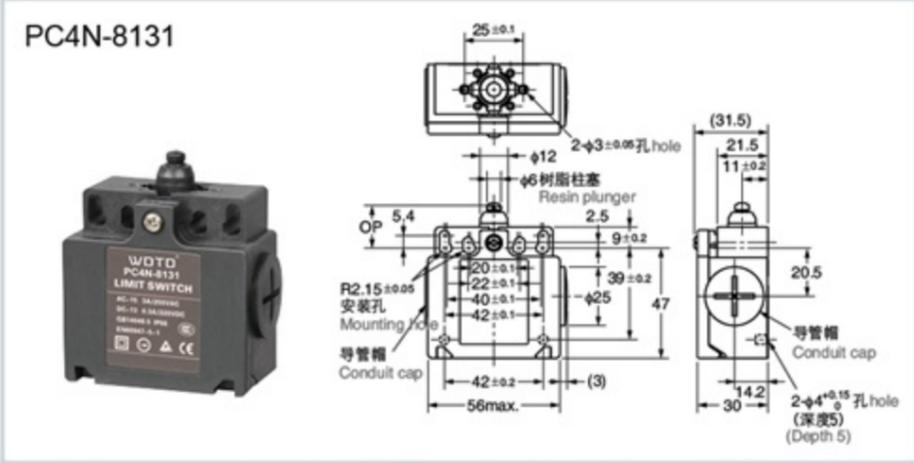
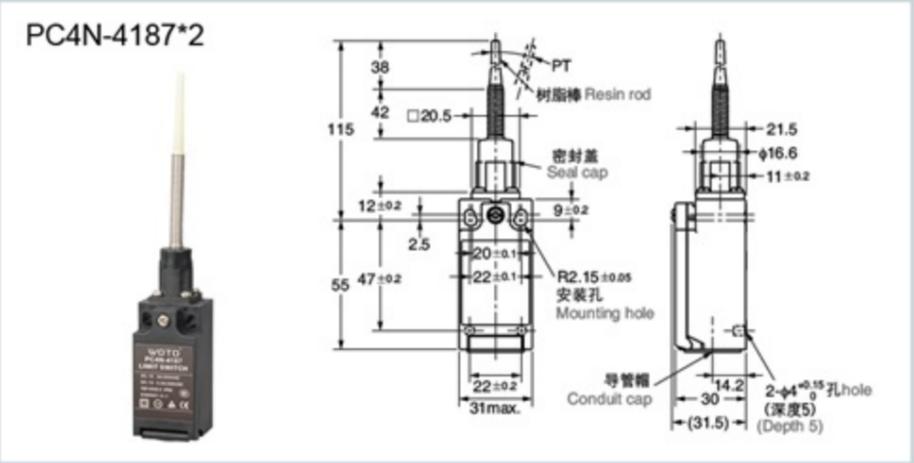
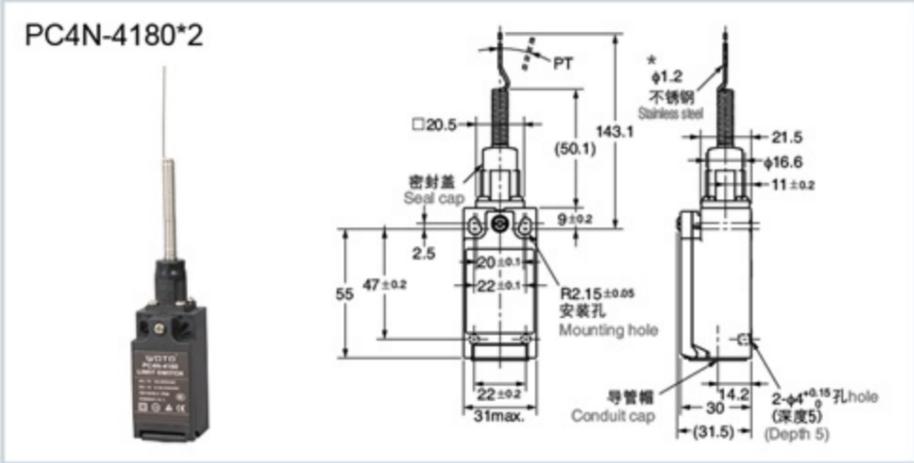
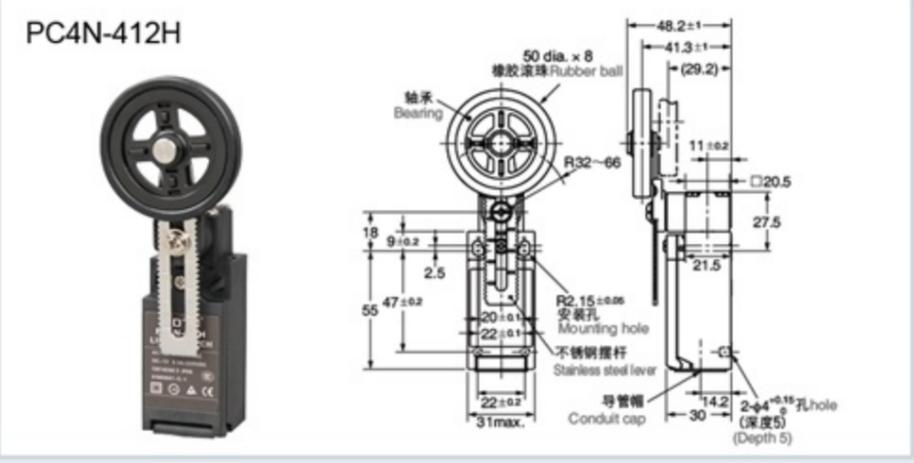
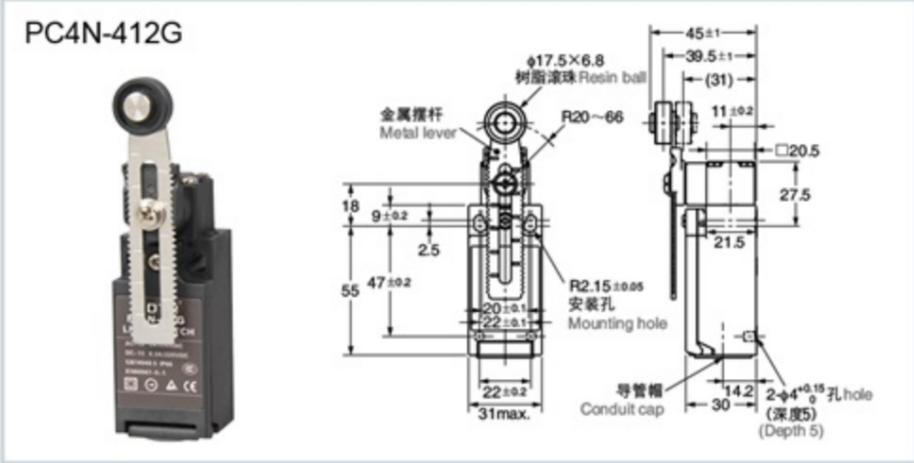
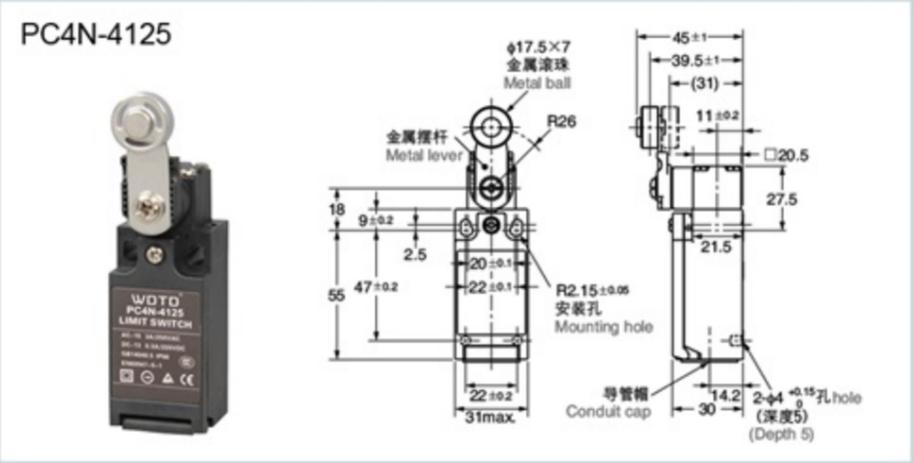
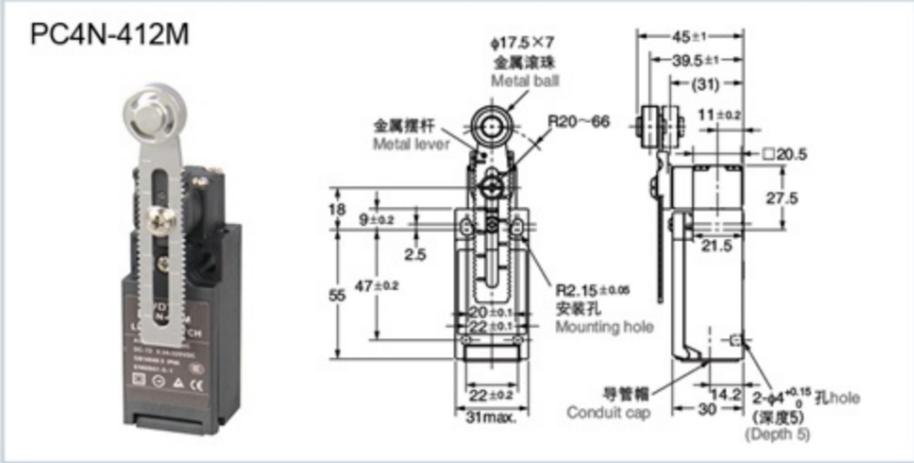
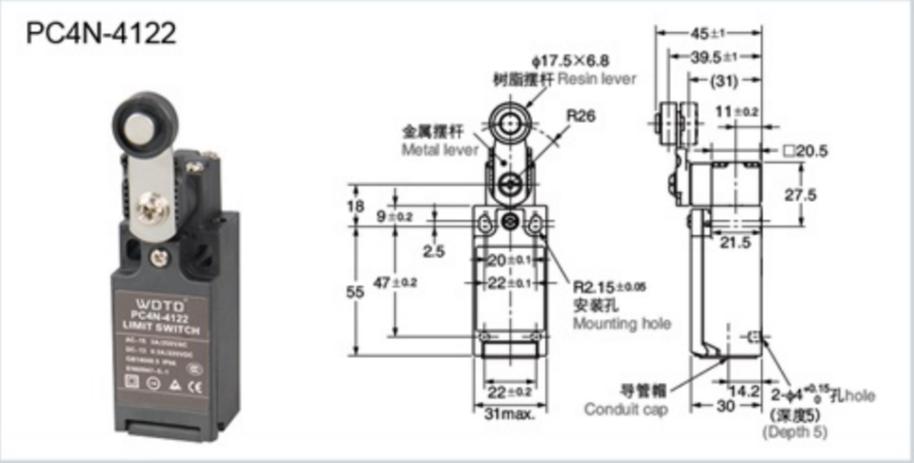
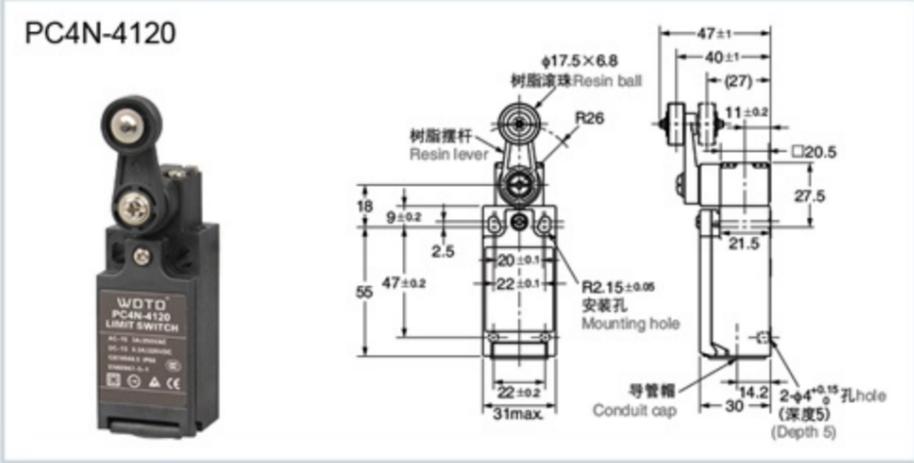
- *1. NC contact is open.
- *2. NO contact is closed.
- *3. Only for MBB type.
- *4. It is the reference value of MBB type.
- *5. Only for MBB type.
- *6. Reference values
- *7. For safe use, please make sure that all values are within the range of maximum or minimum.
- *8. The property value when length of lever is 32mm.

外观和尺寸 Appearance and Dimension



PC4N 立式安全限位开关 Vertical Safety Limit Switch

外观和尺寸 Appearance and Dimension

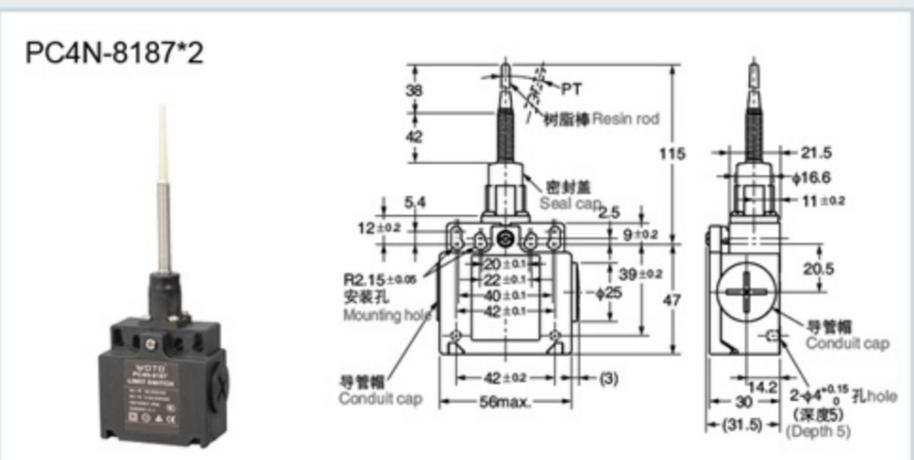
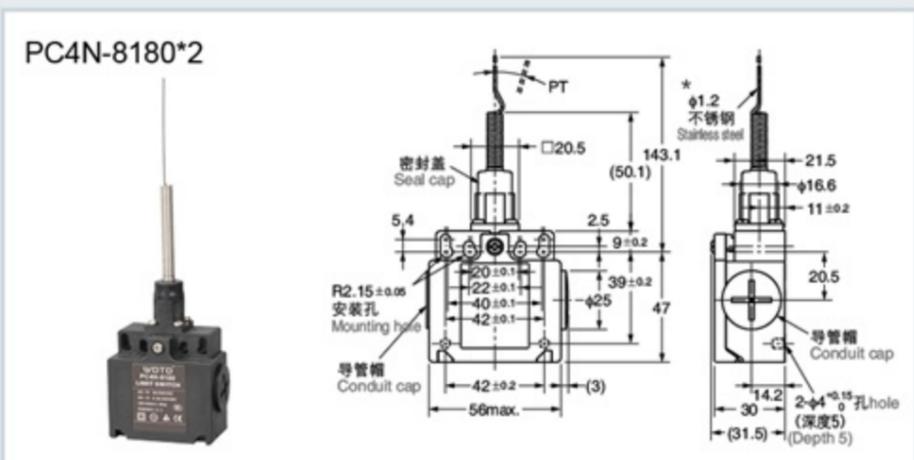
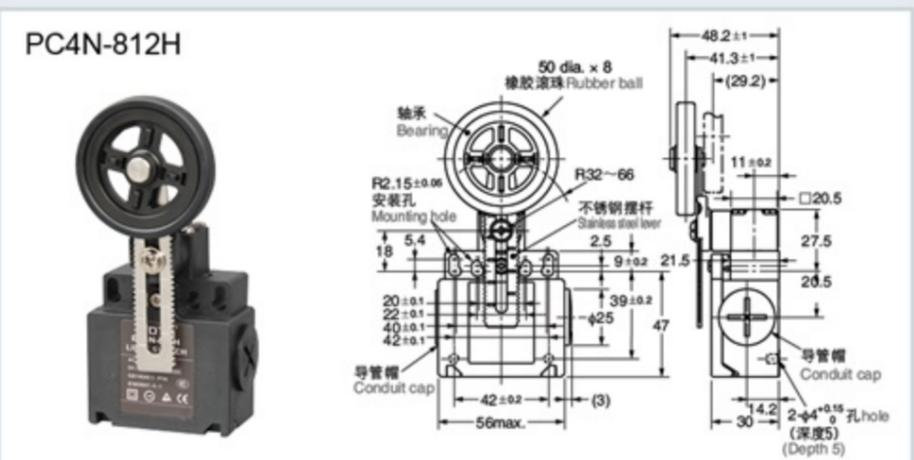
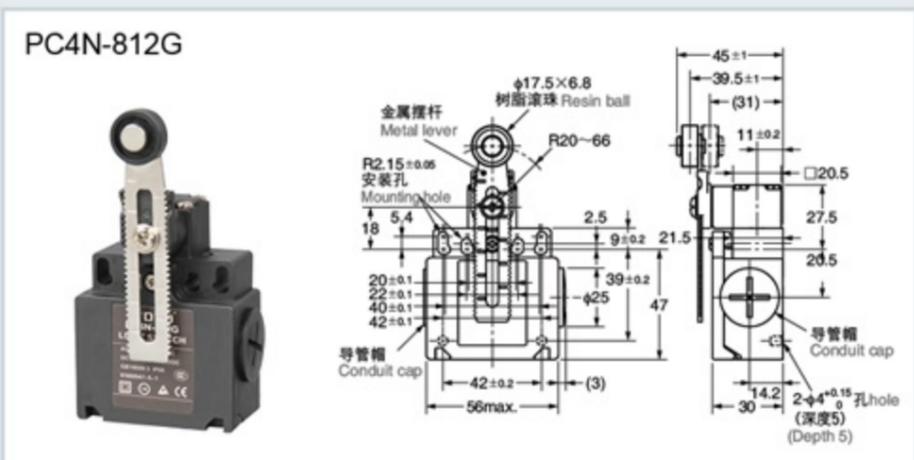
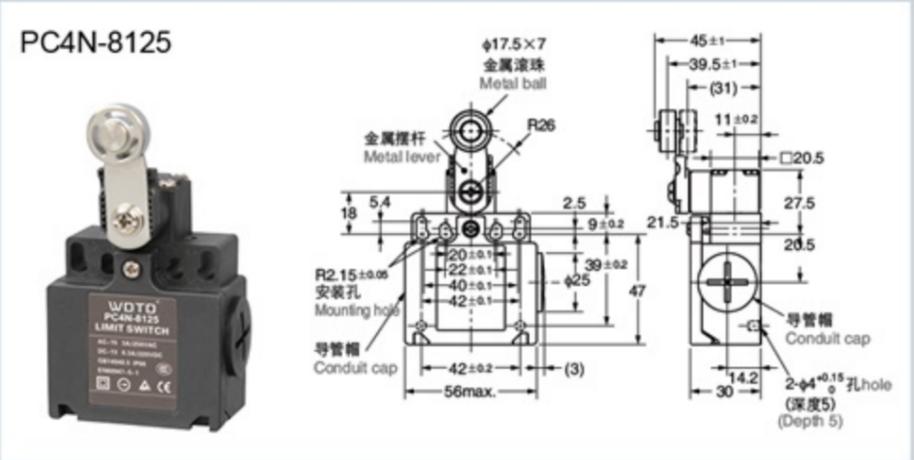
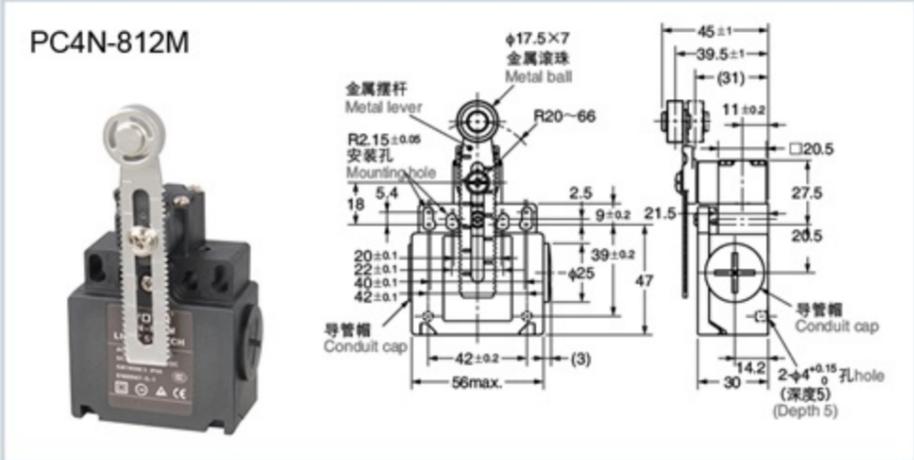
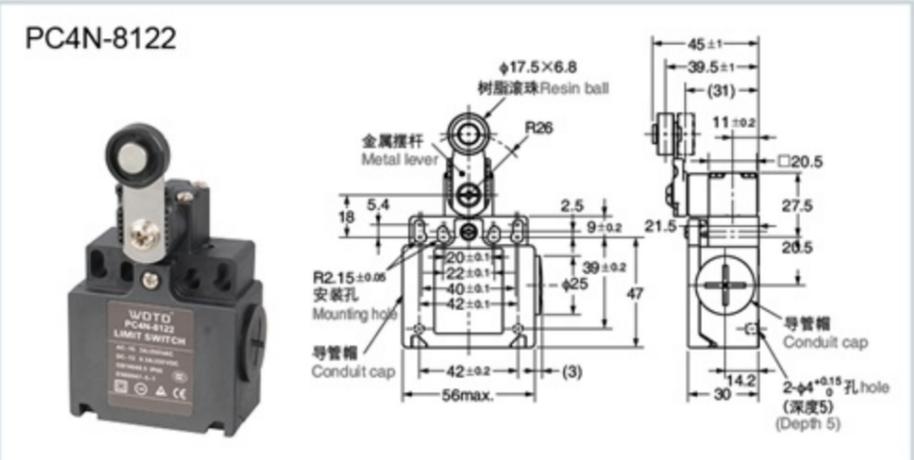
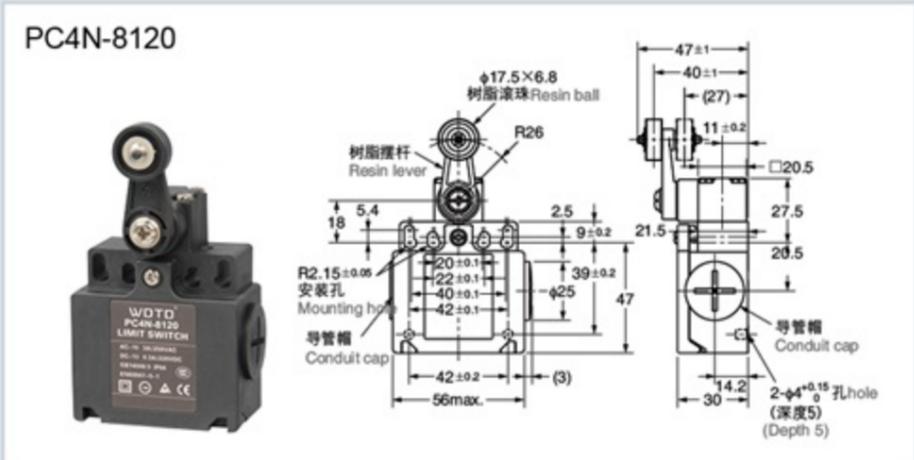
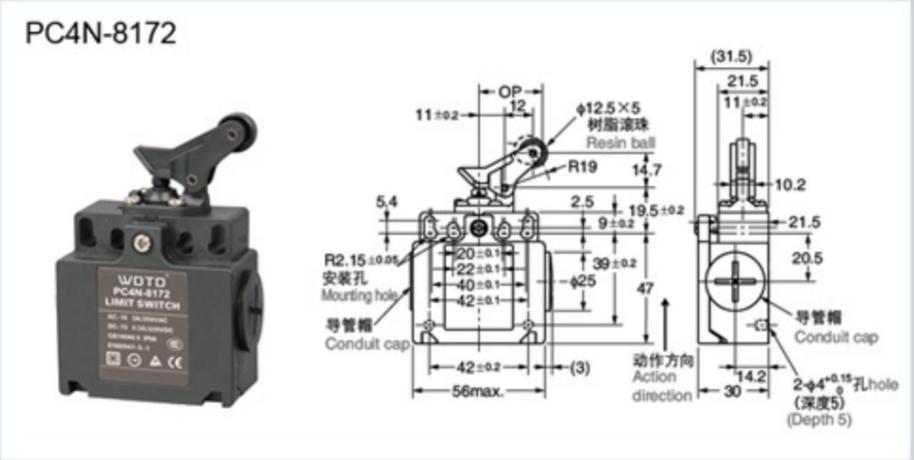
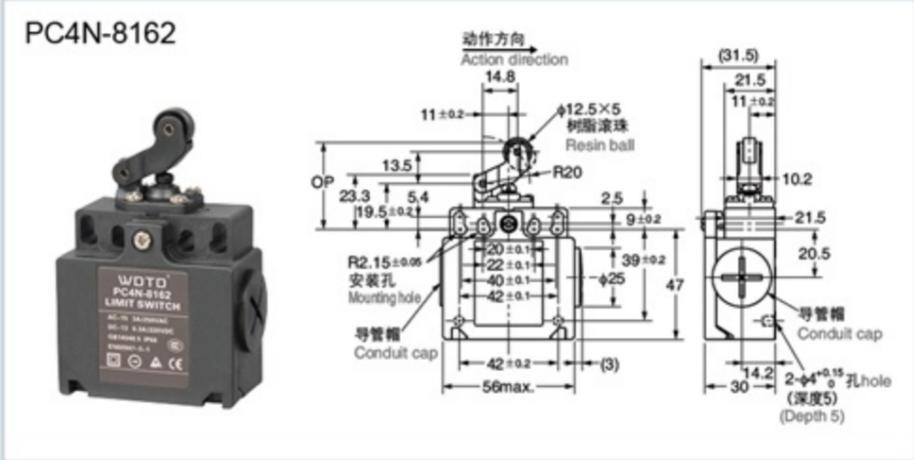


* 不锈钢垫圈和塑料棒的使用范围从前端 35mm 以内，整个动作在 70mm 以内。*2 弹簧式型号仅有 PC4N □ 1 □ □、PC4N □ 2 □ □、PC4N □ B □ □。
* Application of stainless steel washers and plastic stick are within 35mm from the front end, the entire action is within 70mm. *2 spring type models only have PC4N □ 1 □, PC4N □ 2 □, and PC4N □ B □.

PC4N 立式安全限位开关 Vertical Safety Limit Switch



外观和尺寸 Appearance and Dimension



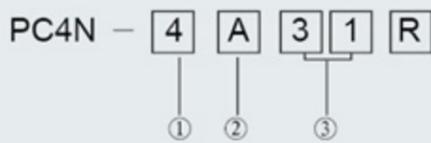
* 不锈钢垫圈和塑料棒的使用范围从前端 35mm 以内，整个动作在 70mm 以内。*2 弹簧式型号仅有 PC4N □ 1 □ □、PC4N □ 2 □ □、PC4N □ B □ □。
* Application of stainless steel washers and plastic stick are within 35mm from the front end, the entire action is within 70mm. *2 spring type models only have PC4N □ 1 □, PC4N □ 2 □, and PC4N □ B □.

PC4N-□R 立式手动复位限位开关

Vertical Manual Reset Safety Limit Switch



型号说明 Model Number Structure



项目 Item	代号 Code	说明 Description
① 导管 / 连接器尺寸 Conduit / connector size	1	Pg13.5 (1 导管型) Pg13.5 (1 conduit type)
	4	M20 (1 导管型) M20 (1 conduit type)
	5	Pg13.5 (2 导管型) Pg13.5 (2 conduits type)
	8	M20 (2 导管型) M20 (2 conduits type)
② 内藏开关 Built-in switch	A	1NC/1NO (慢动型) 1NC/1NO (slow-action type)
	B	2NC (慢动型) 2NC (slow-action type)
③ 头部及传动杆 Head and driving rod	20	滚珠摆杆型 (树脂摆杆, 树脂滚珠) Roller lever (resin lever, resin ball)
	22	滚珠摆杆型 (金属摆杆, 树脂滚珠) Roller lever (metal lever, resin ball)
	25	滚珠摆杆型 (金属摆杆, 金属滚珠) Roller lever (metal lever, metal resin ball)
	2G	可调滚珠摆杆, Form Lock (金属摆杆, 树脂滚珠) Adjustable roller lever, Form Lock (metal lever, resin ball)
	2H	可调滚珠摆杆, Form Lock (金属摆杆, 橡胶滚珠) Adjustable roller lever, Form Lock (metal lever, rubber ball)
	2M	可调滚珠摆杆, Form Lock (金属摆杆, 金属滚珠) Adjustable roller lever, Form Lock (metal lever, metal resin ball)
	31	顶部柱塞型 Top plunger type
	32	顶部柱塞滚珠型 Top plunger ball type
62	单侧悬臂滚珠型 (水平) Unilateral cantilever ball type (horizontal)	
72	单侧悬臂滚珠型 (垂直) Unilateral cantilever ball type (vertical)	

注: 导管连接器尺寸常规默认为 M20x1.5.

NOTE: The default size of conduit connector is M20x1.5.

特点 Features

- 强制断开动作装置 (仅 NC 接点), 可以在发生像接点熔断等故障时断开接点
- 强化顶部密封结构, 以提高密封性能
- 内藏接点座具有慢动型: 1NC/1NO、2NC
- Forced open action device (NC contacts only), to disconnect the contact when the contact has fusing and other failures
- Strengthened top seal structure improves the sealing performance
- Built-in contact holder has slow-action: 1NC /1NO and 2NC

规格 Specifications

保护等级 Protection level	IP66
寿命 Life	电气 Electrical
	50 万次以上 (AC250V 3A, 电阻负载) More than 500,000 times (AC250V 3A, resistive load) 30 万次以上 (AC250V 10A, 电阻负载) More than 300,000 times (AC250V 10A, resistive load)
操作速度 Operating speed	1mm-0.5m/s (C4N-4A20R 型)
动作频率 Operating frequency	最大 30 次 /min Max. 30 times/min
接触电阻 Contact resistance	25mΩ 以下 25 mΩ or less
最小使用负载 Minimum working load	DC5V 1mA 电阻负载 (N 标准参考值) 1mA resistive load below DC5V (N standard reference value)
额定绝缘电压 (UI) Rated insulation voltage (Ui)	300V
防触电保护等级 Electric shock protection grade	Class II (双重绝缘) Class II (double insulated)
污染度 (使用环境) Pollution degree (Using conditions)	污染度 3 (EN60947-5-1) Pollution degree 3 (EN60947-5-1)
耐电压 Withstand voltage (EN60947-5-1)	同极端子间: 2.5kV Between homopolar terminals: 2.5kV
	异极端子间: 4kV Between heteropolar terminals: 2.5kV
	各端子和非充电金属部件: 6kV Between terminals and uncharged metal parts: 6kV
绝缘电阻 Insulation resistance	100MΩ 以上 Above 100MΩ
接点间隙 Contact gap	最小 2 × 0.5mm 速动型 Minimum 2 × 0.5mm quick-action type,
	最小 2 × 2mm 慢动型 Minimum 2 × 2mm slow-action type
振动 Vibration	误动作 Malfunction
	10 ~ 55Hz 0.75mm 单振幅 10 ~ 55Hz 0.75mm single amplitude
冲击 Impact	耐久 Duration
	1,000m/s ² 误动作 Malfunction
环境温度 Ambient temperature	使用时: -20~+70℃ (没有结冰) Using: -20~+70℃ (With no icing)
环境湿度 Ambient humidity	95%RH 以下 Less than 95% RH
质量 Weight	约 92g (D4N-1A20R) About 92g (D4N-1A20R)

注 1. 上述值为初始值。

注 2. 一旦接点连接标准负载后, 就不可用于连接更小容量的负载。否则可能导致接点表面粗糙, 从而失去接触可靠性。

*1. 保护等级是根据 (EN60947-5-1) 规格的测试法得出的。使用前务必在实际使用的环境、条件下确认其密封性。开关盒本体具有防尘、防油构造, 但应尽可能保持头部在没有碎屑粉尘、油污、化学品的场所进行使用。否则可能导致过早磨损、损坏或故障。

*2. 耐久性的条件是使用环境温度 5℃ ~ 35℃、使用环境湿度 40% ~ 70% RH。其他详细条件请另行查询。

*3. 使用环境温度为 35℃ 以上时, 禁止使用 2 回路以上的 3AAC250V 负载。

*4. 这个值会因为开关频率、环境条件、可靠性等级等因素的影响而不同。请事先在实际负载上进行确认。

Note 1. The above values are initial values.

Note 2. Once the contact is connected to a standard load, it can not be used to connect a smaller load. If so, the contact may result in rough surface, thus losing contact reliability.

*1. The protection level is gotten based on test method of (EN60947-5-1). Please make sure its sealing under actual environmental conditions before use. The switch box has dust and oil resistance structure, but it should be used in places without dust, oil and chemicals. Otherwise it may lead to premature wear, damage or malfunction.

*2. The durability is for ambient temperature of 5℃ ~ 35℃ and humidity of 40% to 70% RH. For additional details, please contact us.

*3. When the ambient temperature is above 35℃, more than 2 circuits 3A 250VAC loads are prohibited.

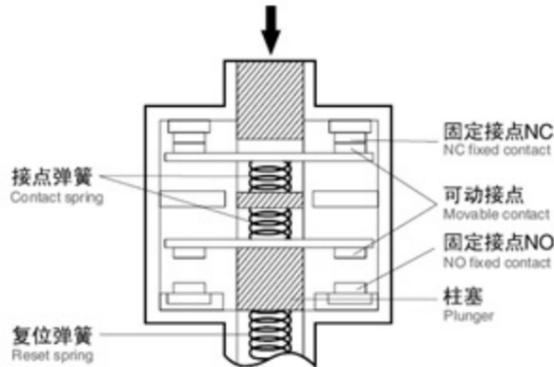
*4. The values will vary with different switching frequency, environmental conditions, reliability level and other factors. Please confirm on the actual load in advance.

强制断开机构 Forced Disconnecting Mechanism

■ 1NC、1NO 接点 (慢动型)

1NC and 1NO contacts (slow-action type)

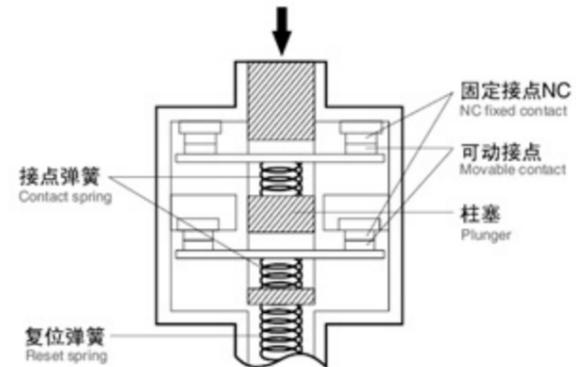
仅限 NC 接点侧有强制断开构造。
当发生熔着时，通过按下柱塞，可以分离接点，切断回路。(符合 EN60947-5-1 强制断开操作)。
Only NC contact has forced disconnect structure.
When melting occurs, the contact can be isolated by pressing the plunger to cut off the loop. (In accordance with EN60947-5-1 force disconnect operation).



■ 2NC 接点 (慢动型)

2NC contacts (slow-action type)

双侧 NC 接点均具有强制断开构造。
当发生熔着时，通过按下柱塞，可以分离接点，切断回路。(符合 EN60947-5-1 强制断开操作)。
When melting occurs, the contact can be isolated by pressing the plunger to cut off the loop. (In accordance with EN60947-5-1 force disconnect operation).



接点形式 Contact Form

型号 Model	接点 Contact	接点形式 Contact form	动作模式 Operation mode	说明 Explanation
PC4N- □A□R	1NC/1NO (慢动型) 1NC/1NO (Slow-action type)			仅 NC 接点 (11-12) 具有强制断开功能 (⊖)。 Only NC contact (11-12) has forced disconnect function (⊖) 接点 (11-12) 和 (33-34) 可作异极使用。 Contacts (11-12) and (33-34) can be used as heteropoles.
PC4N- □B□R	2NC (慢动型) 2NC (Slow-action type)			仅 NC 接点 (11-12、31-32) 具有强制断开功能 (⊖)。 Only NC contact (11-12、31-32) has forced disconnect function (⊖) 接点 (11-12) 和 (31-32) 可作异极使用。 Contacts (11-12) and (31-32) can be used as heteropoles.

动作特性 Operating Characteristics

型号 Model	PC4N-□□20R	PC4N-□□22R	PC4N-□□2GR*2	PC4N-□□2HR	PC4N-□□31R	PC4N-□□32R	PC4N-□□62R	PC4N-□□72R
LF 最大 Max.	6.45N	6.45N	5.6N	5.4N	10.8N	10.8N	7.5	7.9N
LT 最大 Max.	55°	55°	55°	55°	4.5mm	4.5mm	7mm	7mm
PT1 *3	18~27°	18~27°	18~27°	18~27°	2mm	2mm	4mm	4mm
PT2 *4	(44°)	(44°)	(44°)	(44°)	(2.9mm)	(2.9mm)	(5.2mm)	(4.3mm)
OP	--	--	--	--	34 ± 0.5mm	44.4 ± 0.8mm	53 ± 0.8mm	27 ± 0.8mm
TT *5	80°	80°	80°	80°	(6mm)	(6mm)	(9mm)	(9mm)
DOT 最小 Min.*6	50°	50°	50°	50°	3.2mm	3.2mm	5.8mm	5.8mm
DOF 最小 Min.*6	20N	20N	20N	20N	20N	20N	20N	20N

注

- *1. 2NC 接点的闭路 / 开路动作的同时性有所参差，使用时请务必确认。
- *2. 摆杆长 32mm 时的特性值。
- *3. NC 接点为开路 (OFF) 状态时的 PT 值。
- *4. NO 接点闭合 (ON) 时的 PT 一般值 (仅限 1NC/1NO 型)。
- *5. 参考值。
- *6. 强制断路构造的负载和行程值。为保证安全，请务必保持在规定的上限和下限范围内。

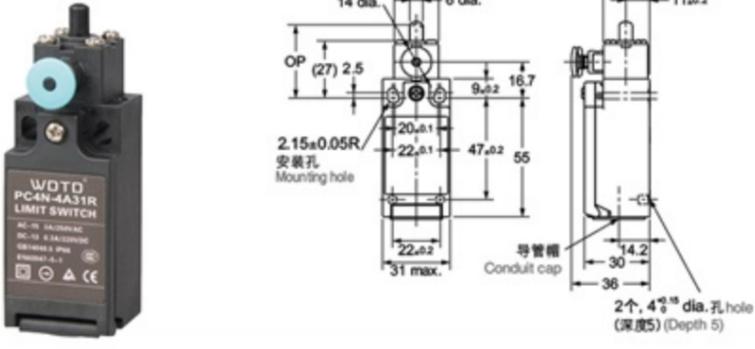
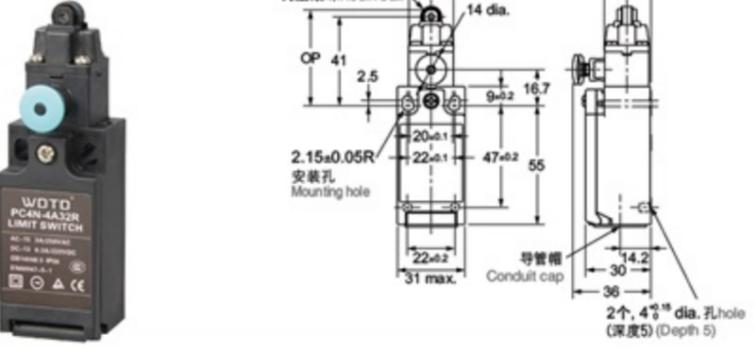
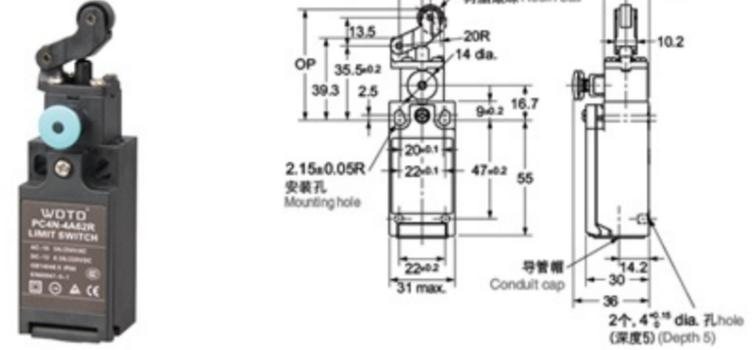
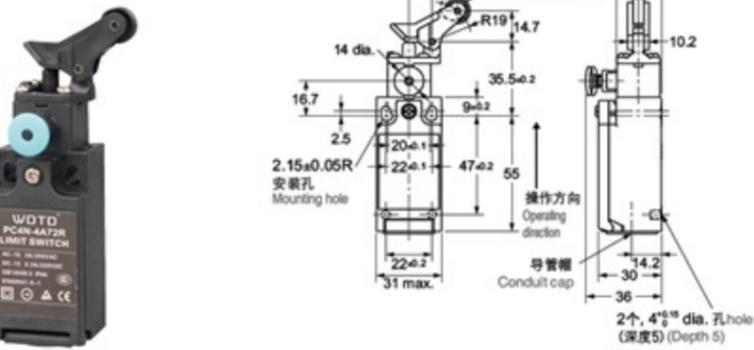
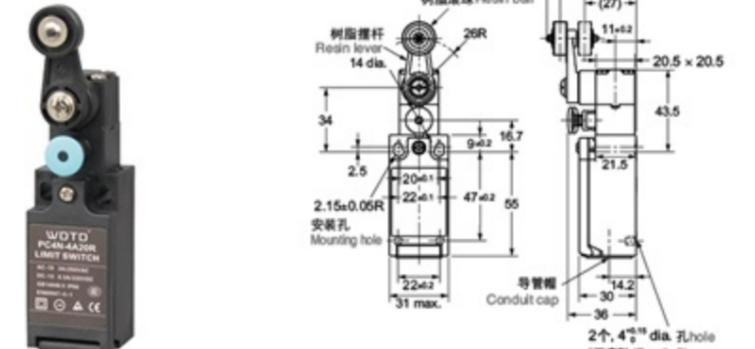
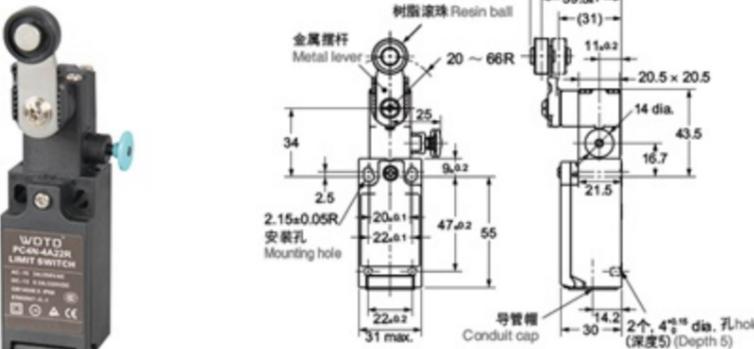
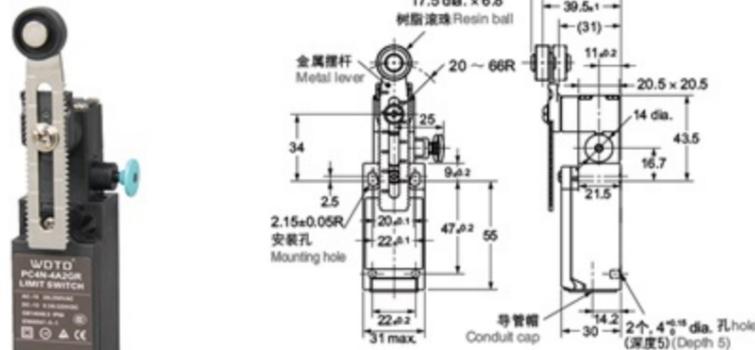
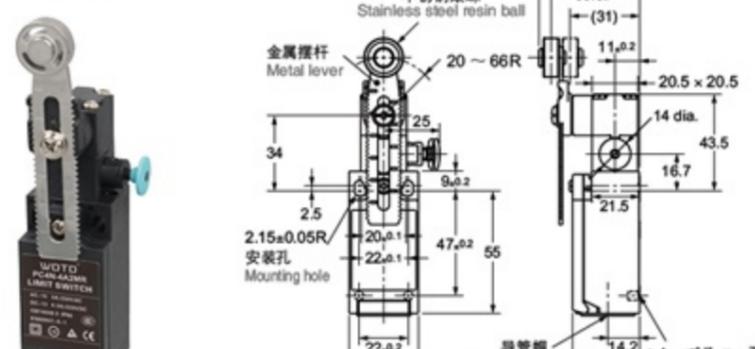
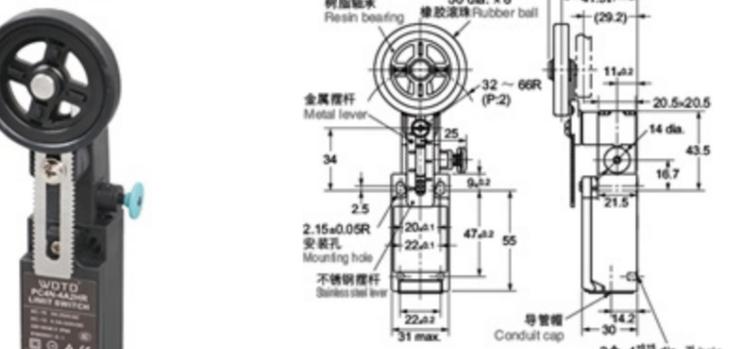
Note

- *1. The simultaneity of ON / OFF operation of 2NC contacts have difference, please make sure before using it.
- *2. The property value when length of lever is 32mm.
- *3. PT value when NC contact is at open (OFF) state.
- *4. PT common value when NO contact is at close (ON) state (only for 1NC/1NO types).
- *5. Reference values.
- *6. Load and travel values of forced disconnect structure. To ensure safety, be sure to remain within the upper and lower range.

PC4N-□R 立式手动复位限位开关

Vertical Manual Reset Safety Limit Switch

外观和尺寸 Appearance and Dimension

<p>PC4N-4A31R</p>  <p>Technical drawing showing dimensions: 20.5 x 20.5, 14 dia., 6 dia., 21.5, 11±0.2, OP (27) 2.5, 9±0.2, 16.7, 2.15±0.05R, 20±0.1, 22±0.1, 47±0.2, 55, 22±0.2, 31 max., 14.2, 30, 36, 2个, 4th dia. 孔hole (深度5) (Depth 5), 导管帽 Conduit cap.</p>	<p>PC4N-4A32R</p>  <p>Technical drawing showing dimensions: 9.5 dia. x 5, 20.5 x 20.5, 14 dia., 21.5, 11±0.2, OP 41, 2.5, 9±0.2, 16.7, 2.15±0.05R, 20±0.1, 22±0.1, 47±0.2, 55, 22±0.2, 31 max., 14.2, 30, 36, 2个, 4th dia. 孔hole (深度5) (Depth 5), 导管帽 Conduit cap.</p>
<p>PC4N-4A62R</p>  <p>Technical drawing showing dimensions: 操作方向 Operating direction, 14.8, 11±0.2, 12 dia. x 5 树脂滚珠 Resin ball, 20R, 14 dia., 10.2, OP 35.5±0.2, 39.3, 2.5, 9±0.2, 16.7, 2.15±0.05R, 20±0.1, 22±0.1, 47±0.2, 55, 22±0.2, 31 max., 14.2, 30, 36, 2个, 4th dia. 孔hole (深度5) (Depth 5), 导管帽 Conduit cap.</p>	<p>PC4N-4A72R</p>  <p>Technical drawing showing dimensions: OP 11±0.2, 12, 12 dia. x 5 树脂滚珠 Resin ball, R19, 14.7, 14 dia., 35.5±0.2, 10.2, 16.7, 2.5, 9±0.2, 16.7, 2.15±0.05R, 20±0.1, 22±0.1, 47±0.2, 55, 22±0.2, 31 max., 操作方向 Operating direction, 14.2, 30, 36, 2个, 4th dia. 孔hole (深度5) (Depth 5), 导管帽 Conduit cap.</p>
<p>PC4N-4A20R</p>  <p>Technical drawing showing dimensions: 17.5 dia. x 6.8 树脂滚珠 Resin ball, 20R, 14 dia., 47±0.1, 40±0.1, (27), 11±0.2, 20.5 x 20.5, 43.5, 21.5, 34, 2.5, 9±0.2, 16.7, 2.15±0.05R, 20±0.1, 22±0.1, 47±0.2, 55, 22±0.2, 31 max., 14.2, 30, 36, 2个, 4th dia. 孔hole (深度5) (Depth 5), 导管帽 Conduit cap.</p>	<p>PC4N-4A22R</p>  <p>Technical drawing showing dimensions: 17.5 dia. x 6.8 树脂滚珠 Resin ball, 金属摆杆 Metal lever, 20 ~ 66R, 14 dia., 45.1, 39.5±0.1, (31), 11±0.2, 20.5 x 20.5, 43.5, 21.5, 34, 2.5, 9±0.2, 16.7, 2.15±0.05R, 20±0.1, 22±0.1, 47±0.2, 55, 22±0.2, 31 max., 14.2, 30, 36, 2个, 4th dia. 孔hole (深度5) (Depth 5), 导管帽 Conduit cap.</p>
<p>PC4N-4A2GR</p>  <p>Technical drawing showing dimensions: 17.5 dia. x 6.8 树脂滚珠 Resin ball, 金属摆杆 Metal lever, 20 ~ 66R, 14 dia., 45.1, 39.5±0.1, (31), 11±0.2, 20.5 x 20.5, 43.5, 21.5, 34, 2.5, 9±0.2, 16.7, 2.15±0.05R, 20±0.1, 22±0.1, 47±0.2, 55, 22±0.2, 31 max., 14.2, 30, 36, 2个, 4th dia. 孔hole (深度5) (Depth 5), 导管帽 Conduit cap.</p>	<p>PC4N-4A25R</p>  <p>Technical drawing showing dimensions: 17.5 dia. x 7 金属滚珠 Metal ball, 金属摆杆 Metal lever, 20 ~ 66R, 14 dia., 45.1, 39.5±0.1, (31), 11±0.2, 20.5 x 20.5, 43.5, 21.5, 34, 2.5, 9±0.2, 16.7, 2.15±0.05R, 20±0.1, 22±0.1, 47±0.2, 55, 22±0.2, 31 max., 14.2, 30, 36, 2个, 4th dia. 孔hole (深度5) (Depth 5), 导管帽 Conduit cap.</p>
<p>PC4N-4A2MR</p>  <p>Technical drawing showing dimensions: 17.5 dia. x 7 不锈钢滚珠 Stainless steel resin ball, 金属摆杆 Metal lever, 20 ~ 66R, 14 dia., 45.1, 39.5±0.1, (31), 11±0.2, 20.5 x 20.5, 43.5, 21.5, 34, 2.5, 9±0.2, 16.7, 2.15±0.05R, 20±0.1, 22±0.1, 47±0.2, 55, 22±0.2, 31 max., 14.2, 30, 36, 2个, 4th dia. 孔hole (深度5) (Depth 5), 导管帽 Conduit cap.</p>	<p>PC4N-4A2HR</p>  <p>Technical drawing showing dimensions: 树脂轴承 Resin bearing, 50 dia. x 8 橡胶滚珠 Rubber ball, 金属摆杆 Metal lever, 32 ~ 66R (P-2), 14 dia., 48.2±0.1, 41.3±0.1, (29.2), 11±0.2, 20.5 x 20.5, 43.5, 21.5, 34, 2.5, 9±0.2, 16.7, 2.15±0.05R, 20±0.1, 22±0.1, 47±0.2, 55, 22±0.2, 31 max., 14.2, 30, 36, 2个, 4th dia. 孔hole (深度5) (Depth 5), 导管帽 Conduit cap.</p>

外观和尺寸 Appearance and Dimension

<p>PC4N-8A31R</p>	<p>PC4N-8A32R</p>
<p>PC4N-8A62R</p>	<p>PC4N-8A72R</p>
<p>PC4N-8A20R</p>	<p>PC4N-8A22R</p>
<p>PC4N-8A2MR</p>	<p>PC4N-8A25R</p>
<p>PC4N-8A2GR</p>	<p>PC4N-8A2HR</p>

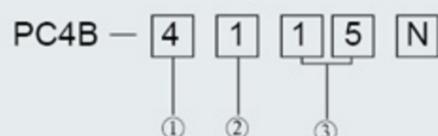
PC4B-□N 立式安全限位开关 Vertical Safety Limit Switch



特点 Features

- 强制断开动作装置 (仅 NC 接点), 可以在发生像接点熔断等故障时断开接点
- 强化顶部密封结构, 以提高密封性能
- 内藏接点座具有速动型: 1NC/1NO; 慢动型: 1NC/1NO、2NC
- Forced open action device (NC contacts only), to disconnect the contact when the contact has fusing and other failures
- Strengthened top seal structure improves the sealing performance
- Built-in contact holder has fast-action type: 1NC / 1NO; Slow-action: 1NC / 1NO and 2NC

型号说明 Model Number Structure



项目 Item	代号 Code	说明 Description
① 导管 / 连接器尺寸 Conduit / connector size	1	Pg13.5 (1 导管型) Pg13.5 (1 conduit type)
	4	M20 (1 导管型) M20 (1 conduit type)
② 内藏开关 Built-in switch	1	1NC/1NO (速动型) 1NC/1NO (quick-action type)
	5	1NC/1NO (慢动型) 1NC/1NO (slow-action type)
	A	2NC (慢动型) 2NC (slow-action type)
③ 头部及传动杆 Head and driving rod	11	滚珠摆杆型 (树脂摆杆, 树脂滚珠) Roller lever (resin lever, resin ball)
	12	可调滚珠摆杆, Form-Lock (金属摆杆, 金属滚珠) Adjustable roller lever, Form-Lock (metal lever, metal ball)
	15	滚珠摆杆型 (金属滚珠) Roller lever (metal ball)
	16	可调滚珠摆杆, Form-Lock (树脂滚珠) Adjustable roller lever, Form-Lock (resin ball)
	17	可调棒式摆杆, Form-Lock (长条杆) Adjustable stick lever, Form-Lock (long lever)
	18	可调滚珠摆杆, Form Lock (金属摆杆, 橡胶滚珠) Adjustable roller lever, Form Lock (metal lever, rubber ball)
	70	顶滚珠柱塞型 Top ball plunger type
	71	滚珠柱塞型 Ball plunger type
	72	滚珠柱塞型 Ball plunger type
	81	线圈弹簧型 Coil spring type
	87	塑料棒型 Plastic stick type
86	金属棒型 Metal stick type	

注: 导管连接器尺寸常规默认为 M20x1.5。

NOTE: The default size of conduit connector is M20x1.5.

额定值 Ratings

额定电压 (V) Rated voltage (V)	非感性负载 (A) Non-inductive load (A)				感性负载 (A) Inductive load (A)			
	阻性负载 Resistive load		灯负载 Lamp load		感性负载 Inductive load		电动机负载 Motor load	
	NC	NO	NC	NO	NC	NO	NC	NO
AC	125	10	3	1.5	10		5	2.5
	250	10	2	1	10		3	1.5
	400	10	1.5	0.8	3		1.5	0.8
DC	8	10	6	3	10			6
	14	10	6	3	10			6
	30	6	4	3	6			4
	125	0.8	0.2	0.2	0.8			0.2
	250	0.4	0.1	0.1	0.4			0.1

注 1. 上述数值表示恒定电流。

注 2. 所谓感性负载, 是功率因数 0.4 以上 (交流)、时间常数 7ms 以下 (直流的负载)。

注 3. 所谓灯负载就是有 10 倍浪涌电流的负载。

注 4. 所谓电动机负载, 就是有 6 倍浪涌电流的负载。

Note 1. The above values represent constant current.

2. The so-called inductive load refers to the load with power factor of 0.4 or more (AC) and the time constant below 7ms (DC).

3. The so-called lamp load refers to the load with 10 times of surge current.

4. The so-called motor load is the load with 6 times of surge current.

规格 Specifications

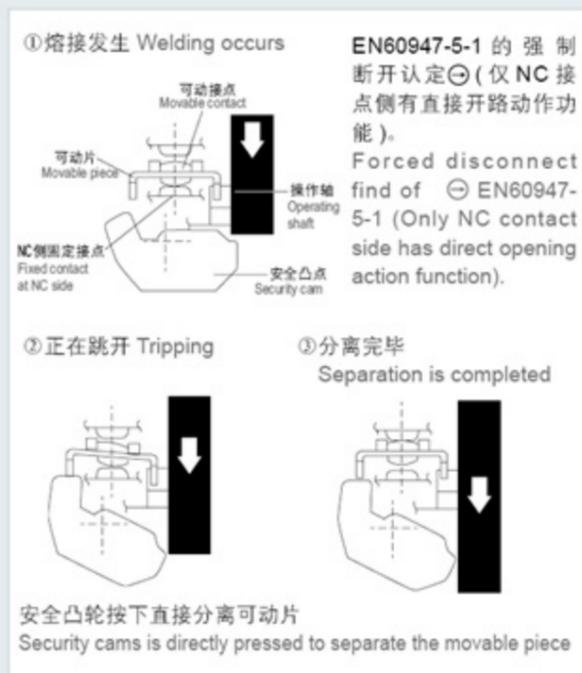
保护等级 Protection level	IP66	
寿命 Life	电气 Electrical	50 万次以上 (AC250V 10A、电阻负载) More than 500,000 times (AC250V 10A, resistive load)
操作速度 Operating speed	1mm~0.5m/s	
操作频率 Operating frequency	机械 Mechanical	120 次 /min 120 times/min
	电气 Electrical	30 次 /min 30 times/min
额定频率 Rated frequency	50/60Hz	
绝缘电阻 Insulation resistance	同极端子之间、及端子与不带电金属部之间 100MΩ 以上 (DC500V 兆欧表) 100MΩ or more (DC500V Megameter) between homopolars, and between terminals and uncharged metal parts	
接触电阻 Contact resistance	25mΩ 以下 (初期值) 5mΩ or less (initial value)	
耐电压 Withstand voltage (EN60947-5-1)	同极端子间: 2.5kV(速动型)/4kV(慢动型) Between homopolar terminals: 2.5kV(quick-action type)/4kV(slow-action type)	
	异极端子间: 4kV(慢动型) Between heteropolar terminals: 2.5kV(slow-action type)	
	带电金属部之间: 4kV Between charged metal parts: 4kV	
	各端子与不带电金属部之间: 6kV Between terminals and uncharged metal parts: 6kV	
额定绝缘电压 (Ui) Rated insulation voltage (Ui)	600V(EN60947-5-1)	
开闭时逆电压 Reverse voltage when on/off	1500V max (EN60947-5-1)	
污染度 (使用环境) Pollution degree (environmental conditions)	污染度 3(EN60947-5-1) Pollution degree 3 (EN60947-5-1)	
防触电保护等级 Electric shock protection grade	Class I (带接地端子) Class I (with ground terminal)	
振动 Vibration	误动作 Malfunction	10 ~ 55Hz 0.75mm 单振幅 10 ~ 55Hz 0.75mm single amplitude
	耐久 Duration	1,000m/s ²
冲击 Impact	耐久 Duration	1,000m/s ²
	误动作 Malfunction	300m/s ²
环境温度 Ambient temperature	使用时: -20~+80℃ (没有结冰) Using: -20~+80℃ (With no icing)	
环境湿度 Ambient humidity	95%RH 以下 Less than 95% RH	
质量 Weight	约 250g About 250g	

- 注 1. 上述值为初始值。
 注 2. 有些型号中可能与上述内容不同，请另外垂询。
 *1. 该保护结构基于标准 (EN69047-5-1) 规定的测试方法，请根据使用环境、使用条件来事先确认密封性。
 *2. 寿命的条件为环境温度 5 ~ 35℃、环境湿度 40 ~ 70%RH 时的数值。

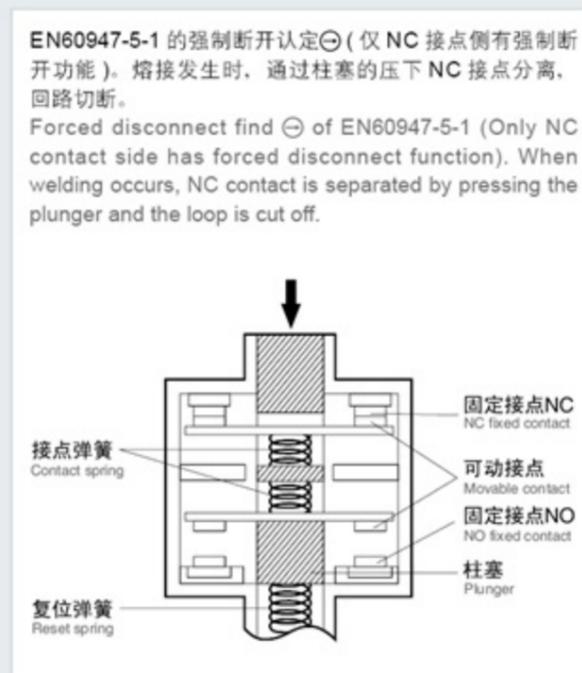
- Note 1. The above are initial values.
 Note 2. Values of some models may be different from the above, please contact us for details.
 *1. The protection structure is tested based on method predetermined by standard (EN69047-5-1), please confirm the sealing in advance according to the operating environment and conditions.
 *2. The conditions of life are the values under the ambient temperature of 5~35℃ and humidity of 40 to 70% RH. For other detailed conditions, please contact us.

强制断开机构 Forced Disconnecting Mechanism

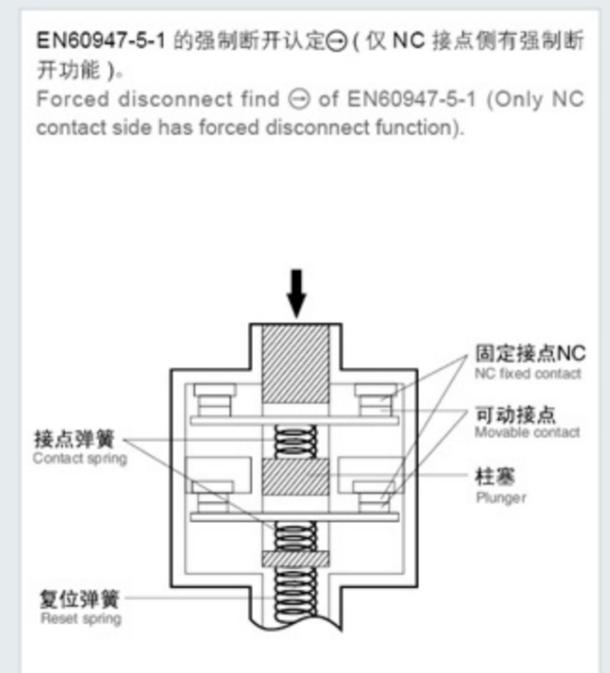
■ 1NC、1NO 接点 (速动型) 1NC and 1NO contacts (quick-action type)



■ 1NC、1NO 接点 (慢动型) 1NC and 1NO contacts (slow-action type)



■ 2NC 接点 (慢动型) 2NC contacts (slow-action type)



PC4B-□N 立式安全限位开关 Vertical Safety Limit Switch

接点形式 Contact form

型号 Model	接点 Contact	接点形式 Contact form	动作模式 Operation mode	说明 Explanation
PC4B-□1□N	1NC/1NO (速动型) 1NC/1NO (Quick-action type)			仅 NC 接点 (11-12) 带强制断开功能, 取得认证 (端子 No.11-12、13-14 不可作异极使用) Only NC contact (11-12) has forced disconnect function and got the certification (terminal No.11-12,13-14 can not be used as different heteropoles)
PC4B-□5□N	1NC/1NO (慢动型) 1NC/1NO (Slow-action type)			仅 NC 接点 (11-12) 带强制断开功能, 取得认证 (端子 No.11-12、13-14 不可作异极使用) Only NC contact (11-12) has forced disconnect function and got the certification (terminal No.11-12,13-14 can not be used as different heteropoles)
PC4B-□A□N	2NC (慢动型) 2NC (Slow-action type)			两个 NC 接点 (11-12、21-22) 带强制断开功能, 取得认证 (端子 No.11-12、21-22 可以作异极使用) Two NC contacts (11-12, 21-22) have forced disconnect function and got the certification (terminal No.11-12,21-22 can be used as different heteropoles)

动作特性 Operating Characteristics

动作特性 Action characteristics		型号 Model	PC4B-□□11N	PC4B-□□15N	PC4B-□□16N *1	PC4B-□□17N *2	PC-4B-□□18N *2	PC4B-□□70N	PC4B-□□71N	PC4B-□□81N	PC4B-□□86N	PC4B-□□87N
动作力 Action force	OF 最大 Max.		9.41N	9.41N	9.41N	2.12N	9.41N	18.63N	18.63N	1.47N	1.47N	1.47N
回复力 Restore force	RF 最小 Min.		1.47N	1.47N	1.47N	0.29N	1.47N	1.96N	1.96N			
预行程 Pretravel	PT		21° ± 3°	21° ± 3°	21° ± 3°	21° ± 3°	21° ± 3°	2mm	2mm	15	15	15
	PT (2nd) *3 *5		(45°)	(45°)	(45°)	(45°)	(45°)	(3mm)	(3mm)			
过行程 Overtravel	OT 最小 Min.		50°	50°	50°	50°	50°	5mm	5mm			
响应差的行程 Poor response travel	MD 最大 Max. *4		12°	12°	12°	12°	12°	1mm	1mm			
强制断开预行程 Forced disconnected pretravel	DOT 最小 Min. *3*6 *4*6		35°	35°	35°	35°	35°	3.2mm	3.2mm			
			55°	55°	55°	55°	55°					
强制断开力 Forced disconnected force	DOF 最小 Min. *6		19.61N	19.61N	19.61N	19.61N	19.61N	49.03N	49.03N			
总行程 Total travel	TT *5		(75°)	(75°)	(75°)	(75°)	(75°)	(7mm)	(7mm)			
自由位置 Free position	FP 最大 Max.							38mm	51mm			
动作位置 Action position	OP							35 ± 1mm	48 ± 1mm			

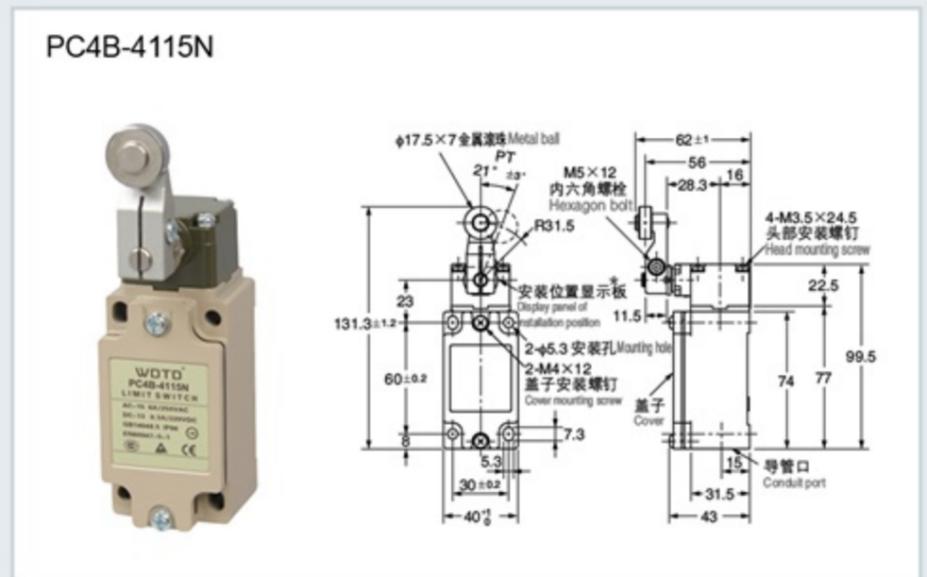
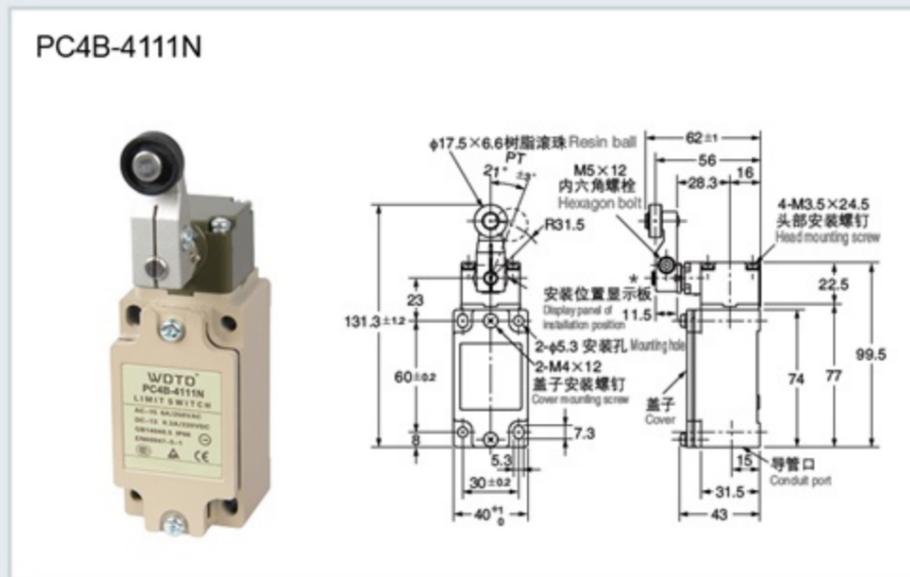
注 2NC 接点 ON/OFF 动作的同时性有差异, 使用时请确认。

- *1. 摆杆长度为 31.5mm 时的特性值。
- *2. 杆长为 140mm 时的特性值。
- *3. 仅慢动型。
- *4. 仅速动型。
- *5. 参考值。
- *6. 为了保证安全使用请务必加以确保。

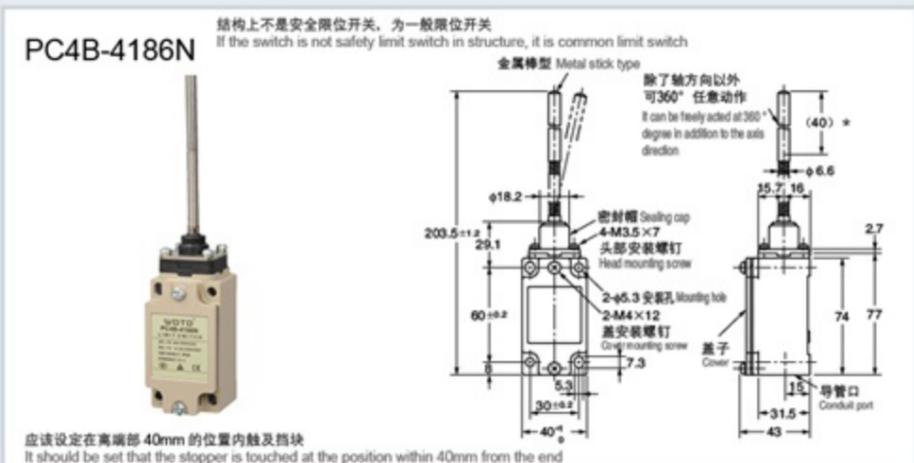
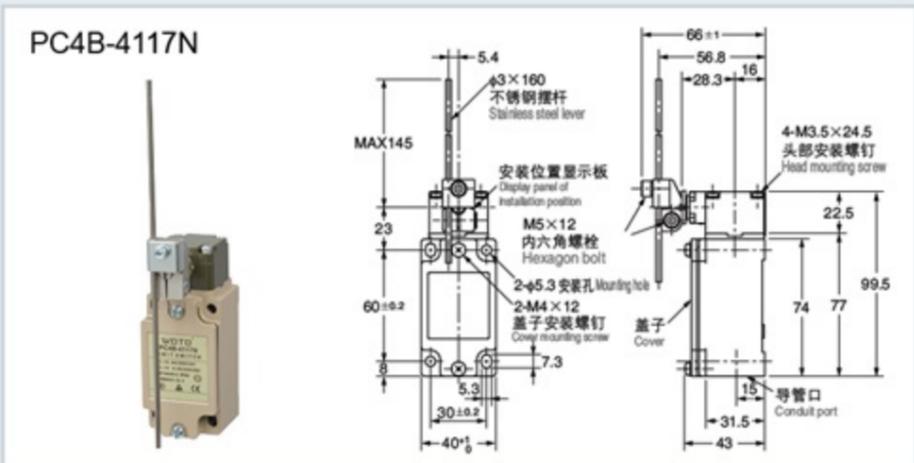
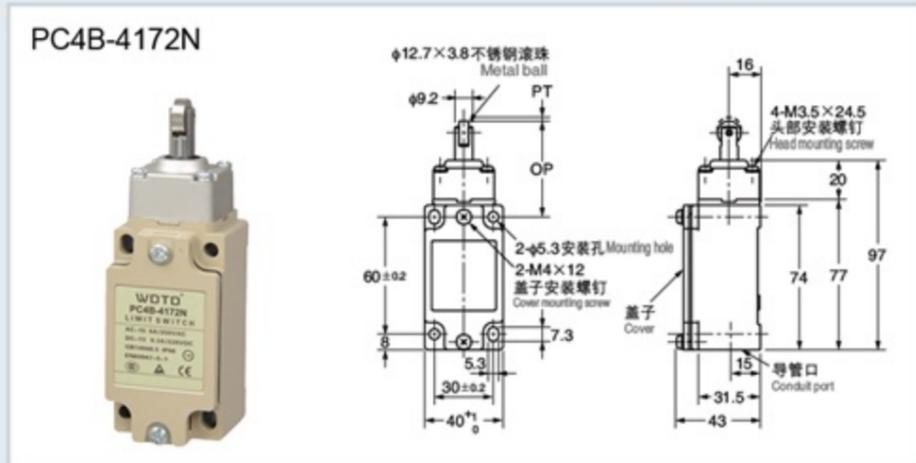
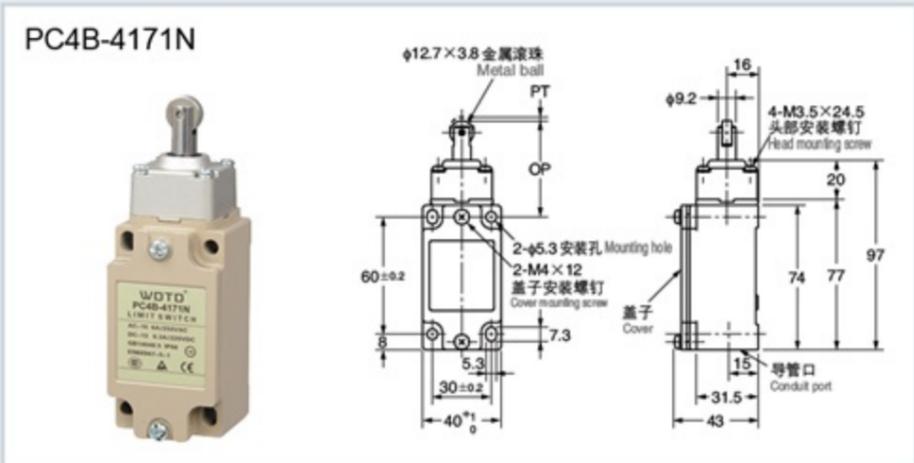
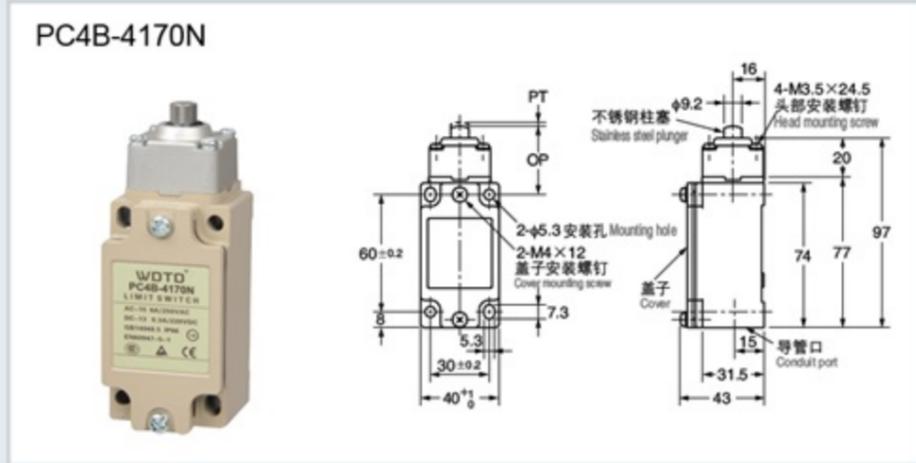
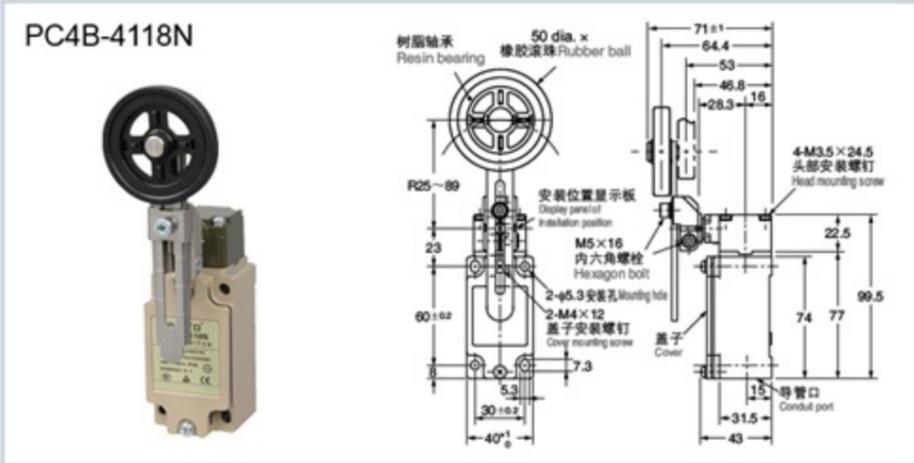
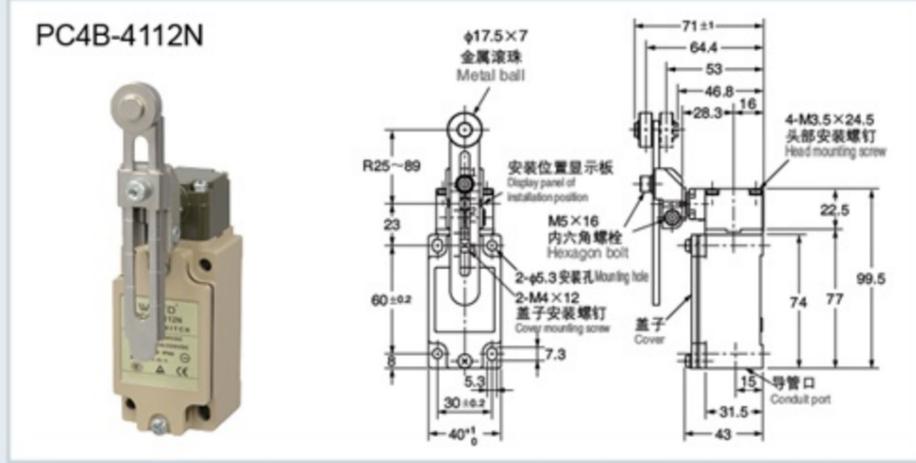
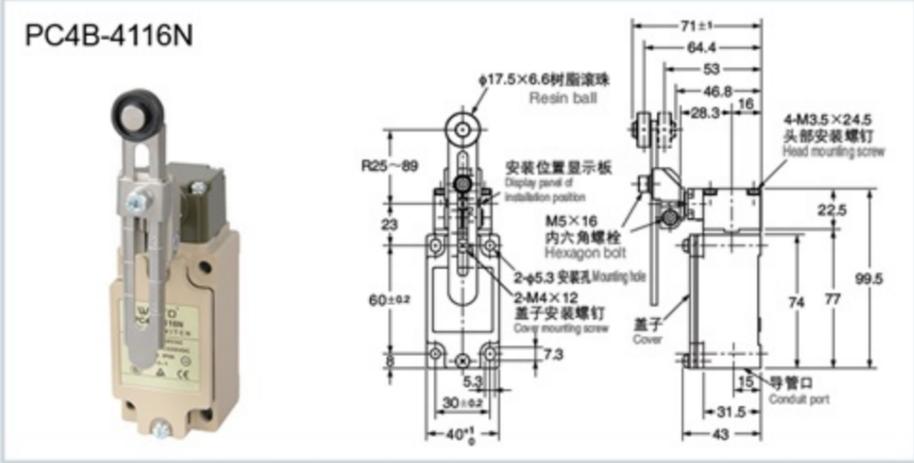
Note The simultaneity of ON / OFF operation of 2NC contacts have difference, please make sure before using it.

- *1. The property value when length of lever is 31.5mm.
- *2. The property value when length of lever is 140mm.
- *3. Only for slow-action type.
- *4. Only for quick-action type.
- *5. Reference values.
- *6. Please make sure in order to ensure the safe use.

外观和尺寸 Appearance and Dimension



外观和尺寸 Appearance and Dimension



P3SE5 立式限位开关

Vertical Limit Switch

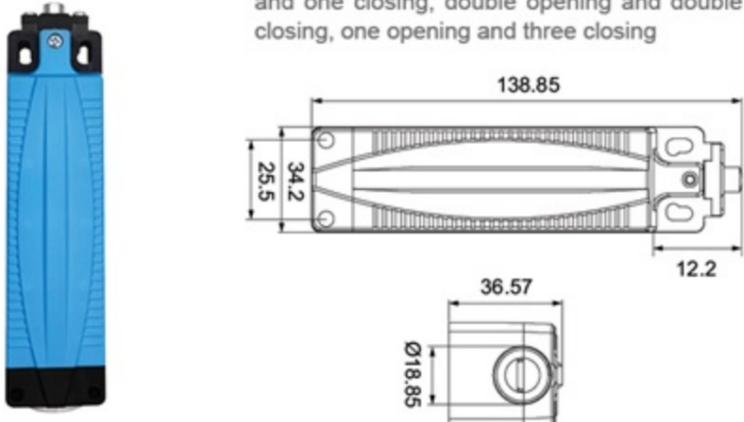
特点 Features

- 双回路型限位开关
- 结构坚固，由锌合金及强化塑胶组成
- 体积小，可防水、防油
- 内藏触点座有双簧片机构，机械寿命更长
- 具有较大的过行程
- 使配线更加简易的导管设计
- 引动器种类多，方便使用
- Double circuit type of limit switch
- High mechanical strength, consists of intensive plastic and aluminum cast
- Small size, water-proof and oil-proof construction
- Built-in contact box has double-spring and long mechanical life
- Smooth operation with larger over travel distance
- Conduit design for convenient cabling
- Various actuators for different applications

外观和尺寸 Appearance and Dimension

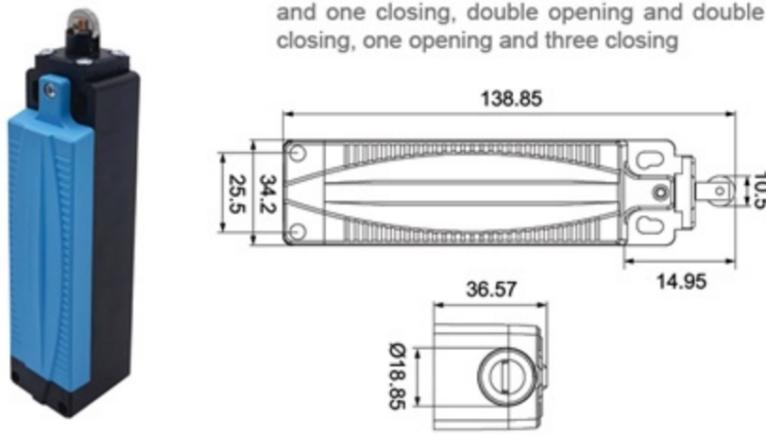
P3SE5-12

四开四闭、三开一闭、双开双闭、一开三闭
Four opening and four closing, three opening and one closing, double opening and double closing, one opening and three closing



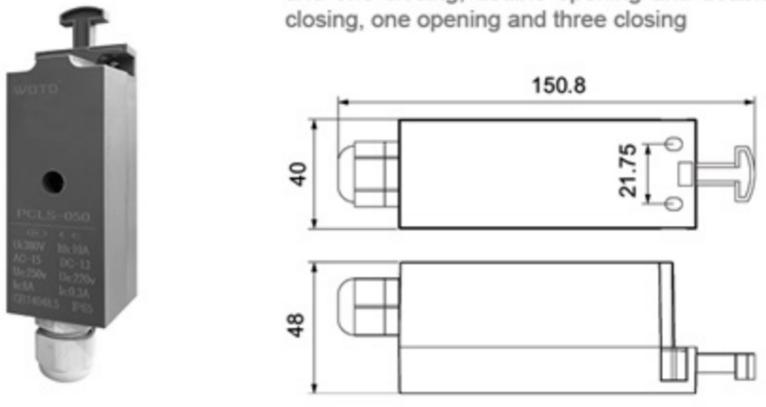
P3SE5-13

四开四闭、三开一闭、双开双闭、一开三闭
Four opening and four closing, three opening and one closing, double opening and double closing, one opening and three closing



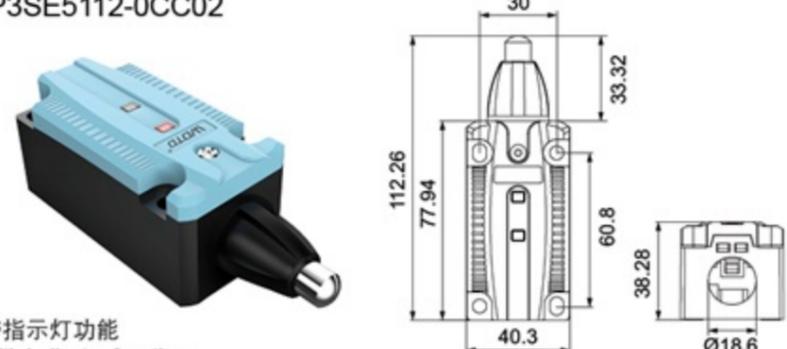
PCLS-050

四开四闭、三开一闭、双开双闭、一开三闭
Four opening and four closing, three opening and one closing, double opening and double closing, one opening and three closing



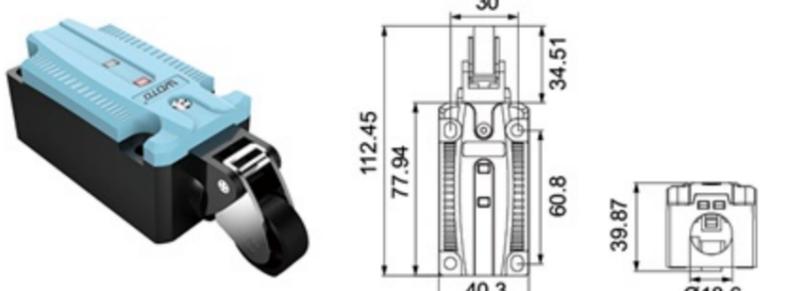
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带指示灯功能
With indicator function



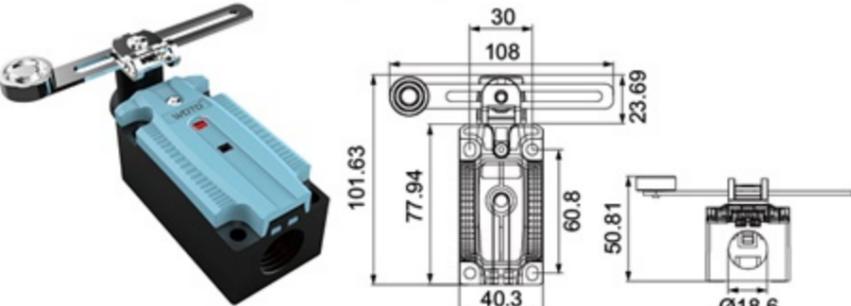
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带指示灯功能、自定义触头 360° 定位
360° positioning of user-defined contact with indicator function



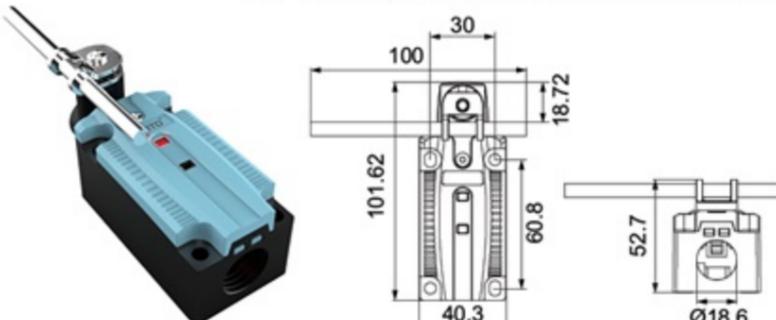
P3SE5112-0CH50

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360° positioning of user-defined contact with indicator function



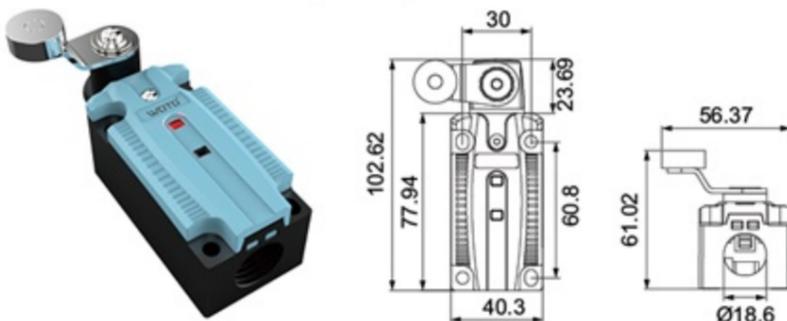
P3SE5112-0CH80

带指示灯功能、自定义触头 360° 定位
360° positioning of user-defined contact with indicator function



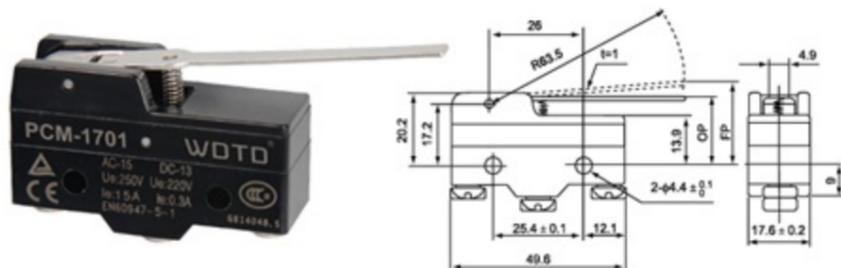
P3SE5112-0CH02

带指示灯功能、自定义触头 360° 定位
360° positioning of user-defined contact with indicator function

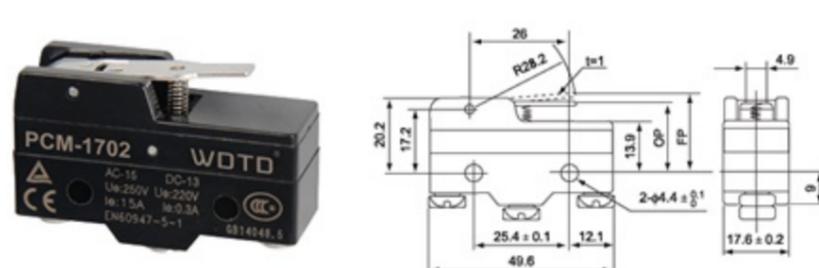


外观和尺寸 Appearance and Dimension

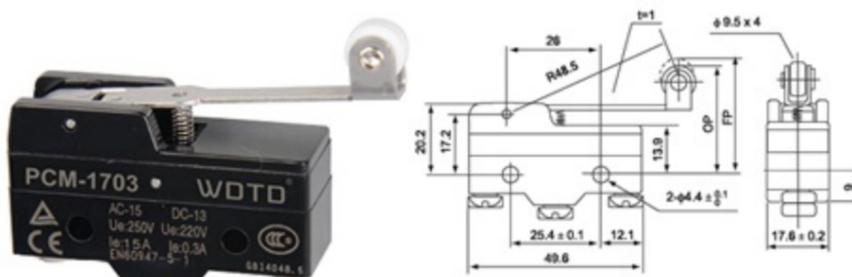
PCM-1701



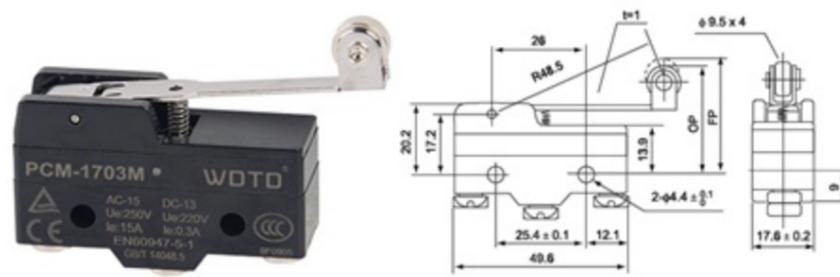
PCM-1702



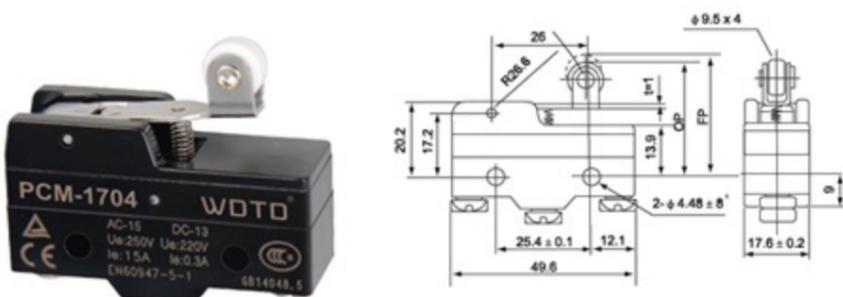
PCM-1703



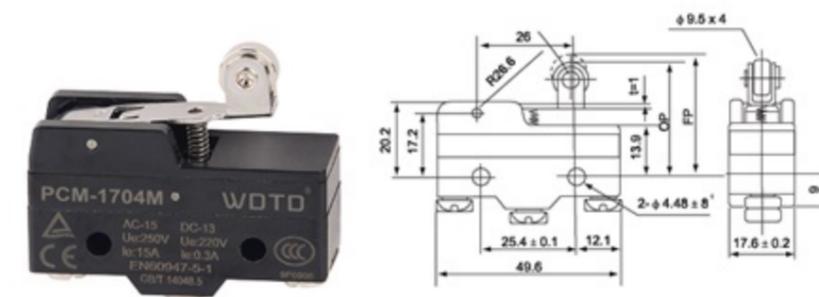
PCM-1703M



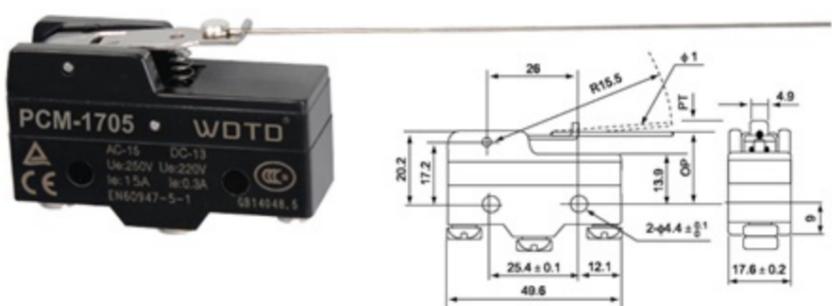
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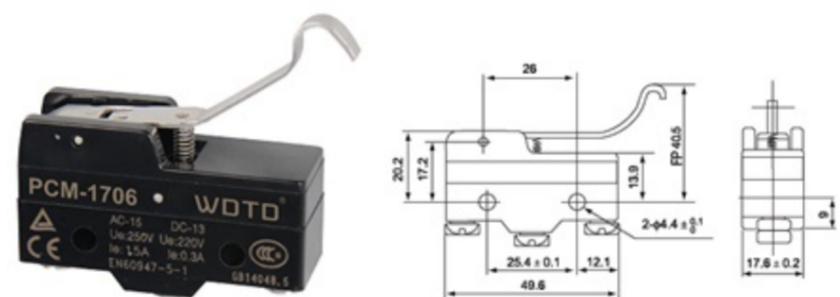
PCM-1704M



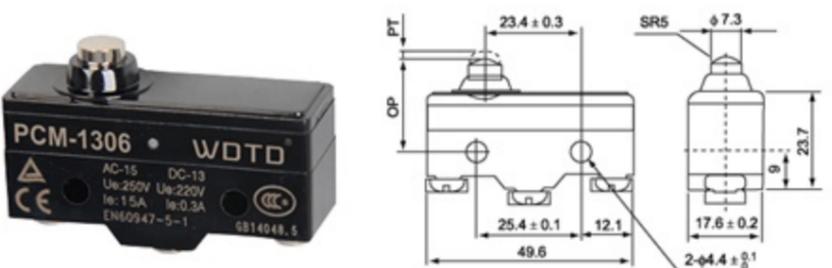
PCM-1705



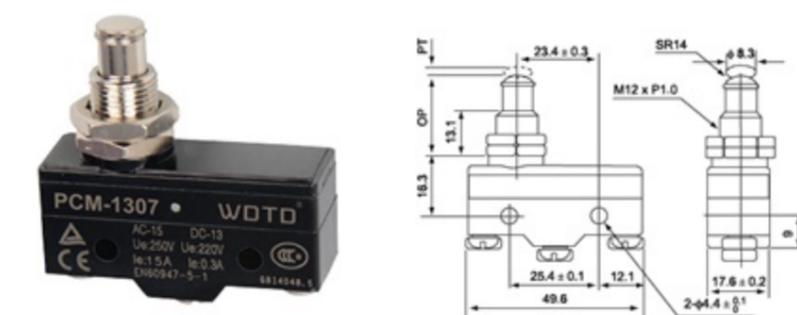
PCM-1706



PCM-1306



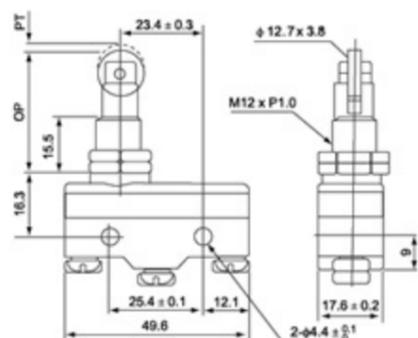
PCM-1307



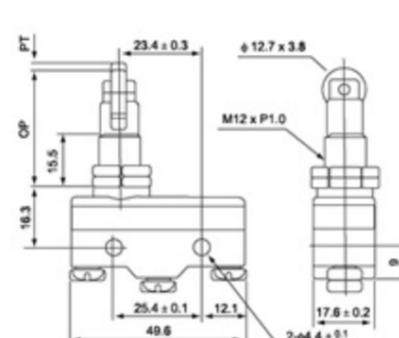
PCM 卧式限位开关 Horizontal Limit Switch

外观和尺寸 Appearance and Dimension

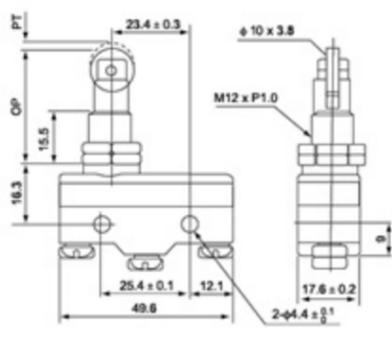
PCM-1308



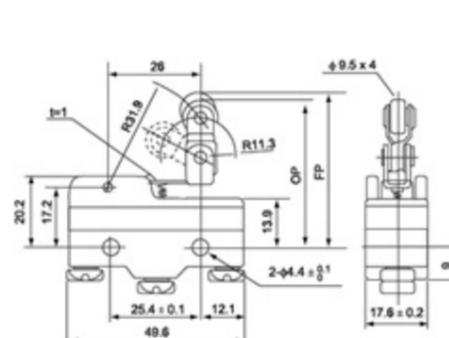
PCM-1309



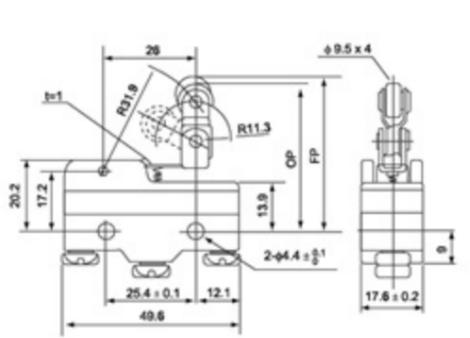
PCM-1308X



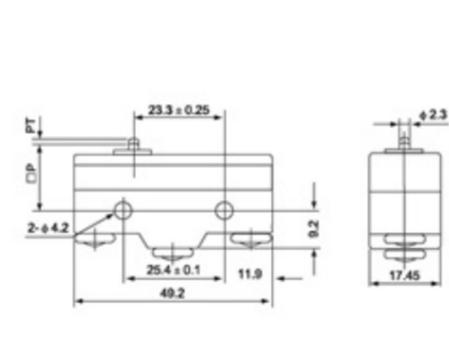
PCM-1743



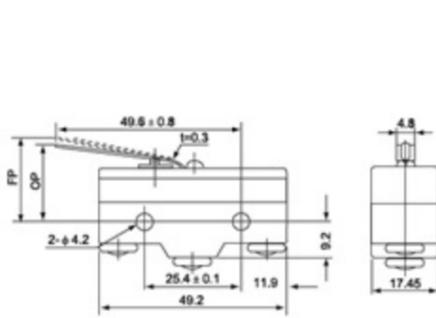
PCM-1743M



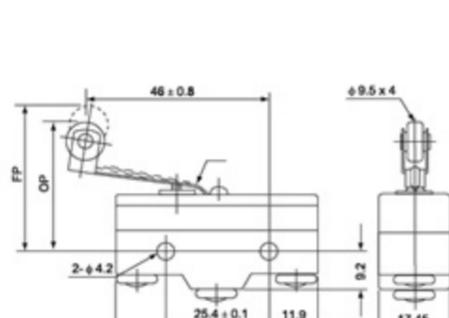
PCM-1300



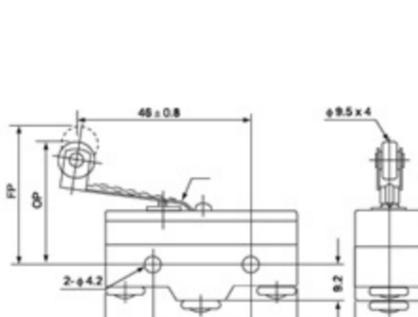
PCM-1301



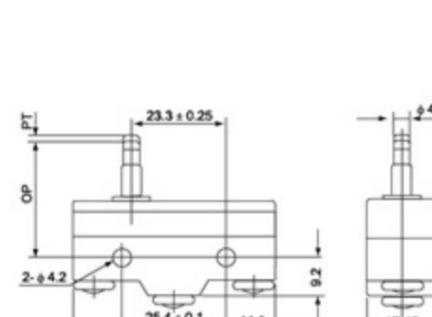
PCM-1303



PCM-1303M



PCM-1305

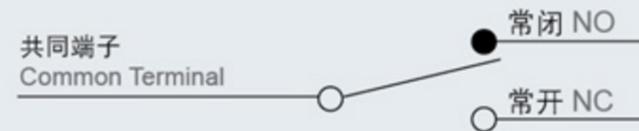




特点 Features

- 引动器种类广泛，其中包含动作位置可调整的款式（如 PCZ-7121）
- 外壳包覆强化塑胶、防水、防油，较 CM 型卧式限位开关有更高的机械强度，耐冲击
- Various actuators and some with adjustable operating position (such as PCZ-7121)
- Shell covered with intensive plastic for water-proof and oil-proof. The mechanical strength is better than CM series of horizontal limit switch

接点型式 Contact Form



额定值 Ratings

额定电压 Rated Voltage	非电感性负载 Noninductive Load (A)				电感性负载 Inductive Load (A)			
	电阻性负载 Resistance Load		灯泡负载 Lamp Load		电感性负载 Inductive Load		马达负载 Motor Load	
	NC	NO	NC	NO	NC	NO	NC	NO
125VAC	10	3	1.5	10	5	2.5		
250VAC	10	2.5	1.25	10	3	1.5		
480VAC	3	1.5	0.75	2.5	1.5	0.75		
8VDC	10	3	1.5	6	6	5		
14VDC	10	3	1.5	6	6	5		
30VDC	8	3	1.5	6	5	2.5		
125VDC	0.5	0.4	0.4	0.05	0.05	0.05		
250VDC	0.25	0.2	0.2	0.03	0.03	0.03		

- 注 1、电感性负载：功率因素=0.4；时间常数=7msec。
 2、灯泡负载之突入电流为稳定状态电流之 10 倍。
 马达负载之突入电流为稳定状态电流之 6 倍。
 3、带弹簧系列产品，操作体的使用范围为从弹簧的前端到弹簧全长的 1/3 以内。
- NOTES: 1. Inductive load has a power factor of 0.4 min.(AC) and a time constant of 7 msec.max.(DC).
 2. Lamp load has an inrush current of 10 times the steady-state current, while motor load has an inrush current of 6 times the steady-state current.
 3. Product with spring, its usable range of operating part is within one third of the whole spring length from the front end of spring.

规格 Specifications

操作速度 Operation speed	0.05mm 至 0.5m/s 0.05mm-0.5m/s
动作频率 Operating frequency	电气: 20 次 / 分 Electrical: 20 operations/min.
接点电阻 Contact resistance	25mΩ 以下 (初期) 25mΩ max. (initial value)
绝缘电阻 Insulation resistance	100MΩ 以上 (在 500VDC 以下) 100mΩ above(at 500VDC)
电介强度 Dielectric strength	非连续端子间 1,000VAC, 50/60Hz 持续 1 分钟 1000VAC, 50/60 Hz for 1 minute between terminals of the same polarity
	载电流与无载电流零件间 1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between current-carrying and non-current-carrying metal parts
	端子和接地之间 1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute between each terminal and ground
振动 Vibration	误动作耐久: 10 至 55Hz, 1.5mm 双振幅 Malfunction Duration: 10-55Hz, 1.5mm double amplitude
冲击 Shock	机械耐久: 1,000m/Sec ² (约 100G' S) 误动作耐久: 300m/Sec ² (约 30G' S) Mechanical durable: 1,000m/Sec ² (about 100g's) Malfunction: 300m/Sec ² (about 30g's)
周围温度 Ambient temperature	使用时: -20~+70℃ (没有结冰) Using: -20~+70℃ (With no icing)
湿度 Humidity	< 95% RH
电气寿命 Electrical life	500,000 次以上 500,000 operations above
重量 Weight	约 60g About 60g

动作特性 Operating Characteristics

型号	Model	PCZ	PCZ-7100	PCZ-7110	PCZ-7310	PCZ-7311	PCZ-7312	PCZ-7120	PCZ-7140	PCZ-7121	PCZ-7141	PCZ-7124	PCZ-7144	PCZ-7166
操作力	Operating force	OF 最大 (Max.)	600g	600g	600g	600g	600g	150g	220g	180g	240g	200g	280g	120g
回弹力	Release force	RF 最小 (Min.)	100g	100g	100g	100g	100g	40g	60g	50g	80g	60g	100g	
预行程	Pre-travel	PT 最大 (Max.)	2.0mm	2.0mm	2.0mm	2.0mm	2.0mm	13.5mm	8.5mm	11.0mm	6.5mm	11mm	6.5mm	250mm
过行程	Over travel	OT 最小 (Min.)	0.8mm	5.0mm	6.0mm	6.0mm	6.0mm	4.0mm	2.5mm	3.0mm	2.0mm	3.0mm	2.0mm	11mm
行程移动分辨率	Movement differential	MD 最大 (Max.)	0.8mm	0.8mm	0.8mm	0.8mm	0.8mm	3.2mm	2.0mm	2.4mm	1.5mm	2.4mm	1.5mm	
动作位置	Operating position	OP(mm.)	30.5 ± 0.8mm	44 ± 1.2mm	21.8 ± 1.2mm	33.3 ± 1.2mm	33.3 ± 1.2mm	25 ± 1mm	25 ± 1mm	40 ± 1mm	40 ± 1mm	50 ± 1.2mm	50 ± 1.2mm	
自由位置	Free Position	FP						35mm	32mm		46mm		56mm	

PCZ-7 卧式限位开关 Horizontal Limit Switch

外观和尺寸 Appearance and Dimension

PCZ-7121

Technical drawing showing dimensions: 35.5, R60.7, 17, 17.5±0.5, 14.4, 25.4±0.15, 54±0.2, 16.5Max, 20.1, OP, 2-φ4.2x0.2 安装孔, 密封橡胶盖, 21.4±0.4, φ12.3±0.6. Note: 注: 动作特性针对从方向A操作开关时.

PCZ-7141

Technical drawing showing dimensions: 35.5, R64, 17, 17.5±0.5, 14.4, 25.4±0.15, 54±0.2, 16.5Max, 20.1, OP, 2-φ4.2x0.2 安装孔, 密封橡胶盖, 21.4±0.4, φ12.3±0.6. Note: 注: 动作特性针对从方向A操作开关时.

PCZ-7120

Technical drawing showing dimensions: 35.5, R34.5, 17, 17.5±0.5, 14.4, 25.4±0.15, 54±0.2, 16.5Max, 20.1, OP, 2-φ4.2x0.2 安装孔, 密封橡胶盖, 21.4±0.15, 6.6. Note: 注: 动作特性针对从方向A操作开关时.

PCZ-7140

Technical drawing showing dimensions: 35.5, R50, 17, 17.5±0.5, 14.4, 25.4±0.15, 54±0.2, 16.5Max, 20.1, OP, 2-φ4.2x0.2 安装孔, 密封橡胶盖, 21.4±0.15, 6.6. Note: 注: 动作特性针对从方向A操作开关时.

PCZ-7124

Technical drawing showing dimensions: 35.5, R60.7, R10.9, 17, 17.5±0.5, 14.4, 25.4±0.15, 54±0.2, 16.5Max, 20.1, OP, 2-φ4.2x0.2 安装孔, 密封橡胶盖, 21.4±0.4, φ12.3±0.6. Note: 注: 动作特性针对从方向A操作开关时.

PCZ-7144

Technical drawing showing dimensions: 35.5, R64, R10.9, 17, 17.5±0.5, 14.4, 25.4±0.15, 54±0.2, 16.5Max, 20.1, OP, 2-φ4.2x0.2 安装孔, 密封橡胶盖, 21.4±0.4, φ12.3±0.6. Note: 注: 动作特性针对从方向A操作开关时.

PCZ-7100

Technical drawing showing dimensions: 2mm PT MAX, 23.9, 17, 17.5±0.5, 14.4, 25.4±0.15, 54±0.2, 16.5Max, 20.1, OP, φ16, 2-φ4.2x0.2 安装孔, 密封橡胶盖, 21.4±0.4, φ7. Note: 注: 动作特性针对从方向A操作开关时.

PCZ-7110

Technical drawing showing dimensions: 2mm PT MAX, 23.9, 17, 17.5±0.5, 14.4, 25.4±0.15, 54±0.2, 16.5Max, 20.1, OP, φ16, 2-φ4.2x0.2 安装孔, 密封橡胶盖, 21.4±0.4, φ7.9. Note: 注: 动作特性针对从方向A操作开关时.

PCZ-7310

Technical drawing showing dimensions: 2mm PT MAX, 23.9, 17, 17.5±0.5, 14.4, 25.4±0.15, 54±0.2, 16.5Max, 20.1, OP, φ16, M12 P=1.0 安装螺母, 密封橡胶盖, 21.4±0.4, φ7.9. Note: 注: 动作特性针对从方向A操作开关时.

PCZ-7311

Technical drawing showing dimensions: 2mm PT MAX, 23.9, 17, 17.5±0.5, 14.4, 25.4±0.15, 54±0.2, 16.5Max, 20.1, OP, φ16, M12 P=1.0 安装螺母, 密封橡胶盖, 21.4±0.4, φ7.9. Note: 注: 动作特性针对从方向A操作开关时.

PCZ-7312

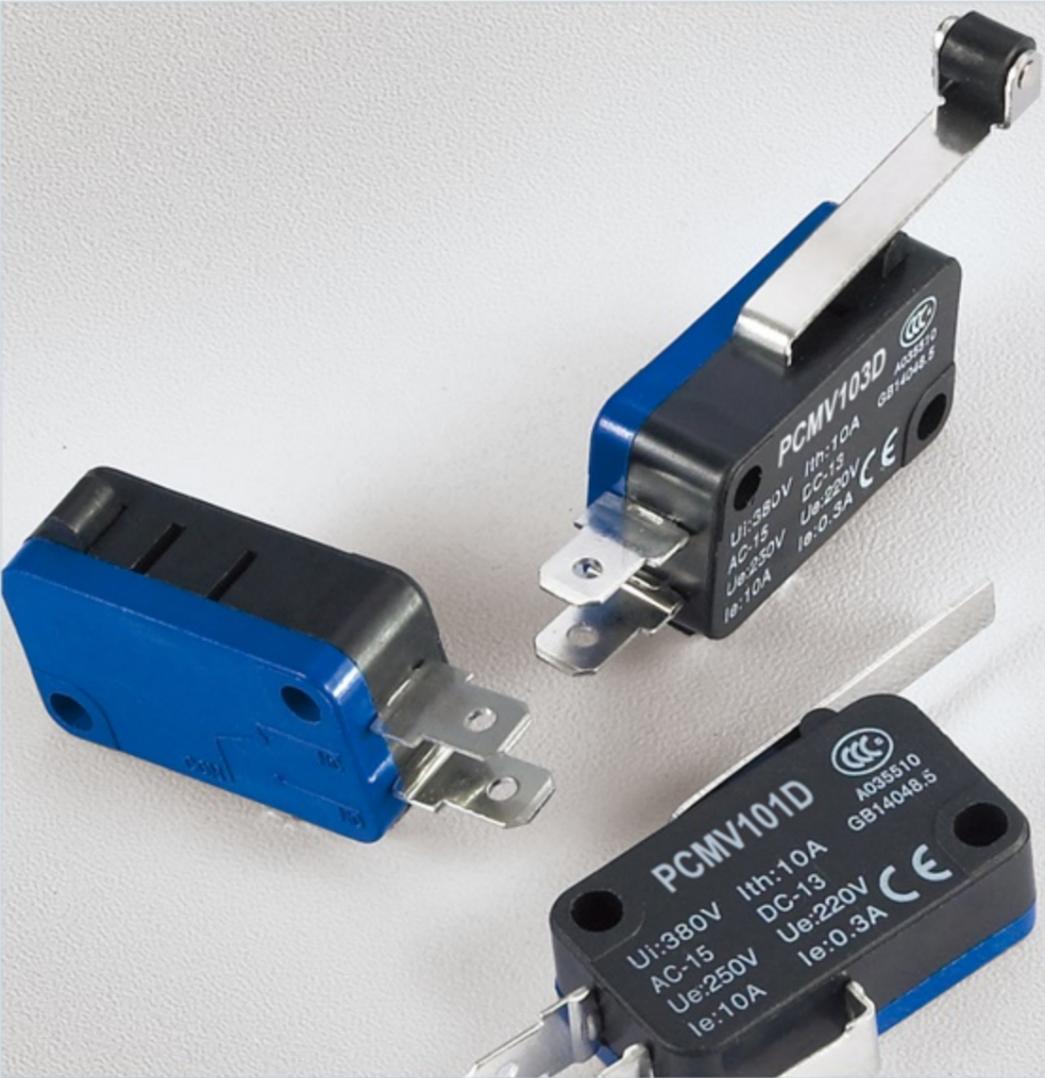
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PCZ-7166

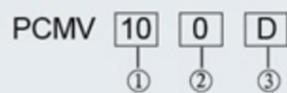
Technical drawing showing dimensions: 2mm PT MAX, 23.9, 17, 17.5±0.5, 14.4, 25.4±0.15, 54±0.2, 16.5Max, 20.1, OP, φ16, M12 P=1.0 安装螺母, 密封橡胶盖, 21.4±0.4, φ12.8. Note: 注: 动作特性针对从方向A操作开关时.

PCMV10 小型微动开关

Miniature Snap Action Switch

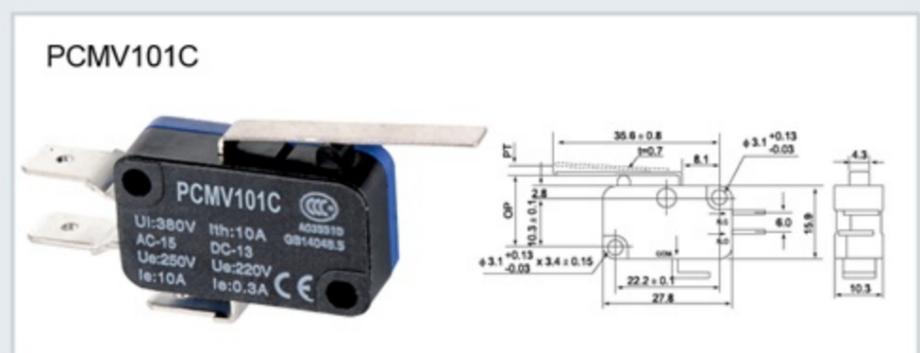


型号说明 Model Number Structure



项目 Item	代号 Code	说明 Description
① 额定电流 Rated Current	10	10A
② 头部及传动杆 Head and driving rod	0	按钮型 Button type
	1	长柄型 Long handle type
	2	短柄型 Short shank type
	3	长滑轮型 Long pulley type
	4	短滑轮型 Short pulley type
	5	加长柄型 Longer handle type
	6	曲柄型 Crank type
③ 端子规格 Terminal specifications	C	#250 型端子 #250 terminal
	D	#187 型端子 #187 terminal

外观和尺寸 Appearance and Dimension



额定值 Ratings

项目 Item 规格 Spec.	额定 电压 Rated Voltage	非电感性负载 Noninductive Load (A)				电感性负载 Inductive Load (A)				突入 电流 (A) Inrush Current	
		电阻性负载 Resis- tance Load		灯泡负载 Lamp Load		电感性负载 Inductive Load		马达负载 Motor Load		NC	NO
		NC	NO	NC	NO	NC	NO	NC	NO		
10A	250VAC	10		1.5		6		2		24 以下 max.	
	8VDC	10		3		6		3			
	30VDC	6		3		6		3			
	125VDC	0.3		0.1		0.6		0.1			
	250VDC	0.3		0.05		0.3		0.05			

规格 Specifications

项目 Item	型式 Type	PCMV 10 型 PCMV 10 type
操作速度 Operation speed		0.05mm~1m/s(按钮型 Button type)
动作频率 Operating frequency		电气 Electrical: 20 operations/min
绝缘电阻 Insulation resistance		100MΩ 以上 (在 500VDC 以下) 100mΩ above(at 500VDC)
接点电阻 Contact resistance		15mΩ 以下 (初期) 15mΩ max. (initial value)
耐电压 Withstand voltage	非连续端子间 Non-continuous terminals	1,000VAC, 50/60Hz 持续 1 分钟 1000VAC, 50/60 Hz for 1 minute
	载电流和无载电流 零件间, 端子和接 地之间 current-carrying and non-current-carrying metal parts, Between terminal and earthing	1,500VAC, 50/60Hz 持续 1 分钟 1500VAC, 50/60 Hz for 1 minute
振动 Vibration	误动作 Misoperation	10 至 55Hz, 1.5mm 双振幅 10 to 55Hz, 1.5mm pairs swing
冲击 Shock	耐久 Durable	最大 1,000m/S ² (约 100G) Maximum 1000 m/S ² (100G)
	误动作 Misoperation	最大 200m/S ² (约 100G) Maximum 200 m/S ² (100G)
寿命 Life	电气的 Electrical	30 万次以上 More than 300000 times
使用周围温度 Temperature		使用时 -20~+70℃ (没有结冰) Using: -20~+70℃ (With no icing)
使用周围湿度 Humidity		85%RH 以下 (+5~+35℃) Below 85% RH

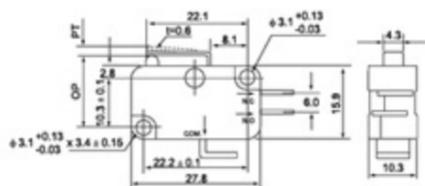
动作特性 Operating Characteristics

型式 Models	PCMV100D	PCMV101D	PCMV102D	PCMV103D	PCMV104D	PCMV105D	PCMV106D
OF 最大 (Max)	2.4N	1.23N	2.4N	1.23N	2.7N	0.69N	1.2N
RF 最小 (Min)	0.49N	0.14N	0.49N	0.14N	0.49N	0.06N	0.14N
PT 最大 (Max)	1.2mm	4.0mm	1.6mm	4.0mm	1.5mm	9.0mm	4.0mm
OT 最小 (Min)	1.0mm	1.6mm	0.8mm	1.6mm	0.8mm	2.0mm	1.5mm
MD 最大 (Max)	0.4mm	1.5mm	0.6mm	1.5mm	0.6mm	2.8mm	1.5mm
OP (mm.)	14.7±0.4mm	15.2±1.2mm	15.2±0.5mm	20.7±1.2mm	20.7±0.6mm	15.2±3mm	18.7±1.2mm

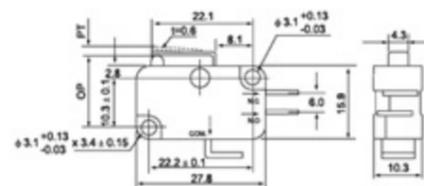
PCMV10 小型微动开关 Miniature Snap Action Switch

外观和尺寸 Appearance and Dimension

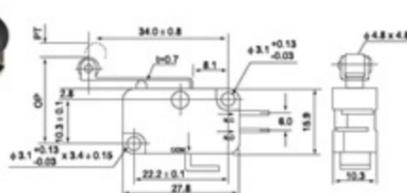
PCMV102D



PCMV102C

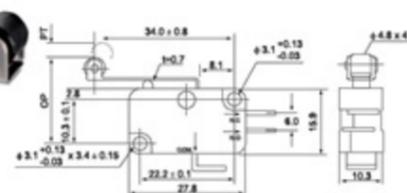


PCMV103D



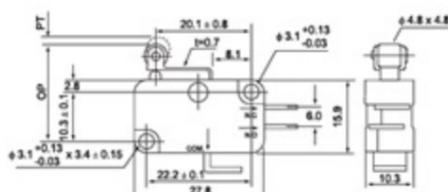
可选配金属滚轮
Optional Metal idler wheel

PCMV103C



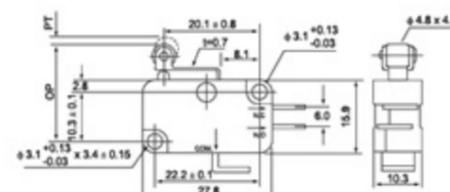
可选配金属滚轮
Optional Metal idler wheel

PCMV104D



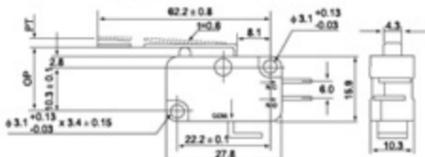
可选配金属滚轮
Optional Metal idler wheel

PCMV104C

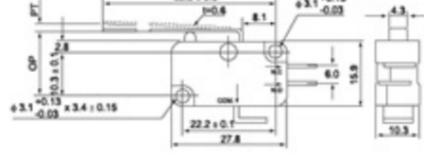


可选配金属滚轮
Optional Metal idler wheel

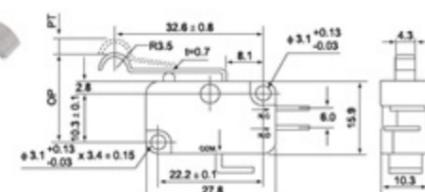
PCMV105D



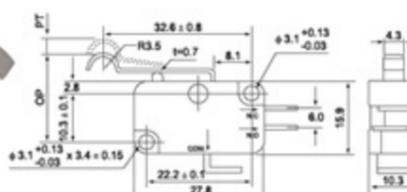
PCMV105C



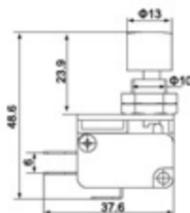
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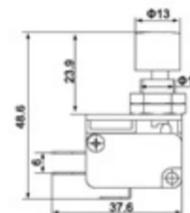
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PCMVP10D

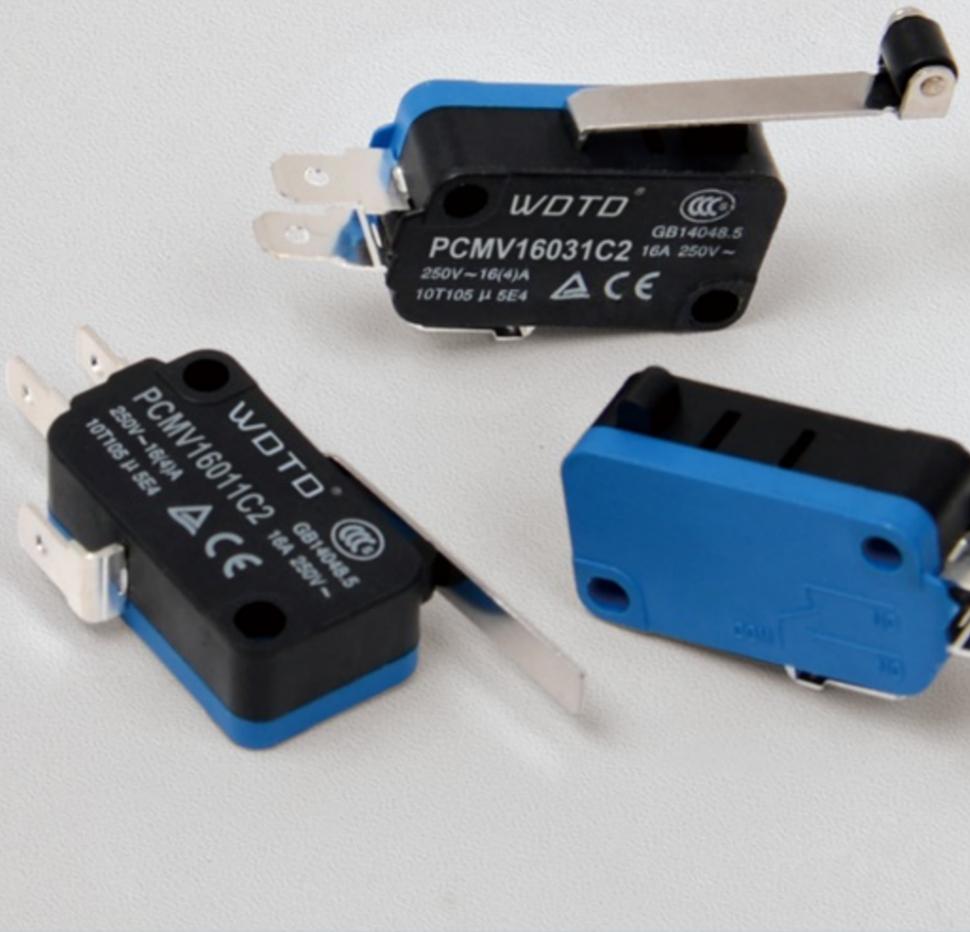


PCMVP10C

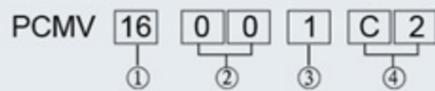


PCMV16 小型微动开关

Miniature Snap Action Switch



型号说明 Model Number Structure



项目 Item	代号 Code	说明 Description
① 额定电流 Rated Current	16	16A
② 头部及传动杆 Head and driving rod	00	按钮型 Button type
	01	长柄型 Long handle type
	02	短柄型 Short shank type
	03	长滑轮型 Long pulley type
	04	短滑轮型 Short pulley type
	05	加长柄型 Longer handle type
	06	曲柄型 Crank type
	07	自锁型 Self locking type
③ 触点形式 Contact form	1	一常开一常闭触点 1NO/1NC
	2	一常闭触点 1NC
	3	一常开触点 1NO
④ 端子规格 Terminal specifications	C	#250 型端子 #250 terminal
	C2	#187 型端子 #187 terminal

外观和尺寸 Appearance and Dimension



额定值 Ratings

项目 Item 规格 Spec.	额定电压 Rated Voltage	非电感性负载 Noninductive Load (A)				电感性负载 Inductive Load (A)				突入 电流 (A) Inrush Current	
		电阻性负载 Resis- tance Load		灯泡负载 Lamp Load		电感性负载 Induc- tive Load		马达负载 Motor Load			
		NC	NO	NC	NO	NC	NO	NC	NO	NC	NO
16A	250VAC	16		2		10		3		40 以下 max.	
	8VDC	16		4		10		6			
	30VDC	10		4		10		4			
	125VDC	0.6		0.1		0.6		0.1			
	250VDC	0.3		0.05		0.3		0.05			

规格 Specifications

项目 Item	型式 Type	PCMV 16 型 PCMV 16 type
操作速度 Operation speed		0.05mm~1m/s(按钮型 Button type)
动作频率 Operating frequency		电气 Electrical: 20 operations/min
绝缘电阻 Insulation resistance		100MΩ 以上 (在 500VDC 以下) 100mΩ above(at 500VDC)
接点电阻 Contact resistance		15mΩ 以下 (初期) 15mΩ max. (initial value)
耐电压 Withstand voltage	非连续端子间 Non-continuous terminals	1,000VAC, 50/60Hz 持续 1 分钟 1000VAC, 50/60 Hz for 1 minute
	载电流和无载电流 零件间, 端子和接 地之间 current-carrying and non-current-carrying metal parts, Between terminal and earthing	2,000VAC, 50/60Hz 持续 1 分钟 2000VAC, 50/60 Hz for 1 minute
振动 Vibration	误动作 Misoperation	10 至 55Hz, 1.5mm 双振幅 10 to 55Hz, 1.5mm pairs swing
冲击 Shock	耐久 Durable	最大 1,000m/S ² (约 100G) Maximum 1000 m/S ² (100G)
	误动作 Misoperation	最大 200m/S ² (约 100G) Maximum 200 m/S ² (100G)
寿命 Life	电气的 Electrical	30 万次以上 More than 300000 times
使用周围温度 Temperature		使用时 :-20~+70℃ (没有结冰) Using: -20~+70℃ (With no icing)
使用周围湿度 Humidity		85%RH 以下 (+5~+35℃) Below 85% RH

动作特性 Operating Characteristics

型式 Models	PCMV16001C2	PCMV16011C2	PCMV16021C	PCMV16031C2	PCMV16041C2	PCMV16051C2	PCMV16061C
OF 最大 (Max.)	2.4N	1.23N	2.4N	1.23N	2.7N	0.69N	1.2N
RF 最小 (Min.)	0.49N	0.14N	0.49N	0.14N	0.49N	0.06N	0.14N
PT 最大 (Max.)	1.2mm	4.0mm	1.6mm	4.0mm	1.5mm	9.0mm	4.0mm
OT 最小 (Min.)	1.0mm	1.6mm	0.8mm	1.6mm	0.8mm	2.0mm	1.5mm
MD 最大 (Max.)	0.4mm	1.5mm	0.6mm	1.5mm	0.6mm	2.8mm	1.5mm
OP (mm.)	14.7 ± 0.4mm	15.2 ± 1.2mm	15.2 ± 0.5mm	20.7 ± 1.2mm	20.7 ± 0.6mm	15.2 ± 3mm	18.7 ± 1.2mm



PCMV16 小型微动开关 Miniature Snap Action Switch

外观和尺寸 Appearance and Dimension

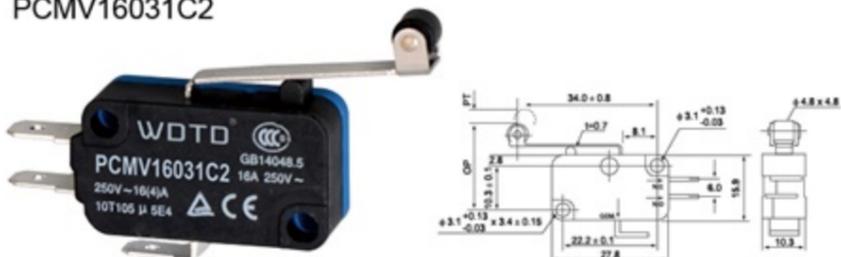
PCMV16021C



PCMV16021C2



PCMV16031C2



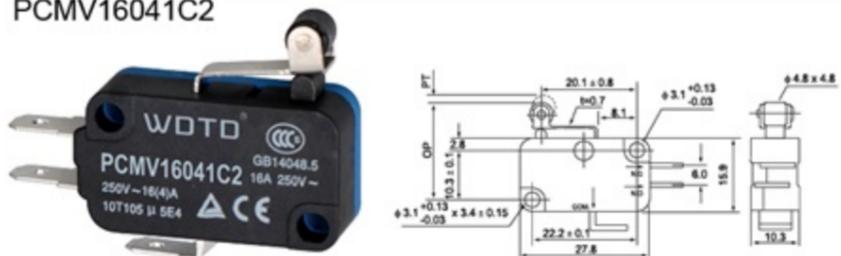
可定制金属滚轮
Custom Made Metal idler wheel

PCMV16031C



可定制金属滚轮
Custom Made Metal idler wheel

PCMV16041C2



可定制金属滚轮
Custom Made Metal idler wheel

PCMV16041C



可定制金属滚轮
Custom Made Metal idler wheel

PCMV16051C2



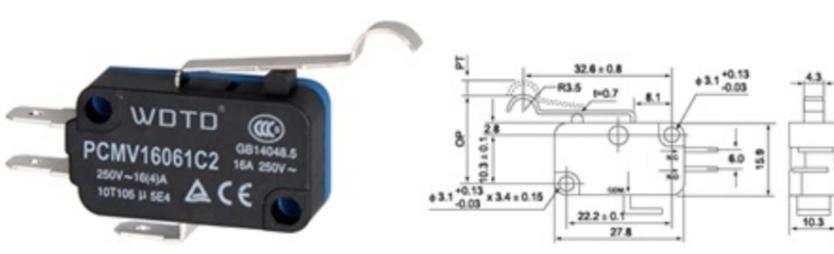
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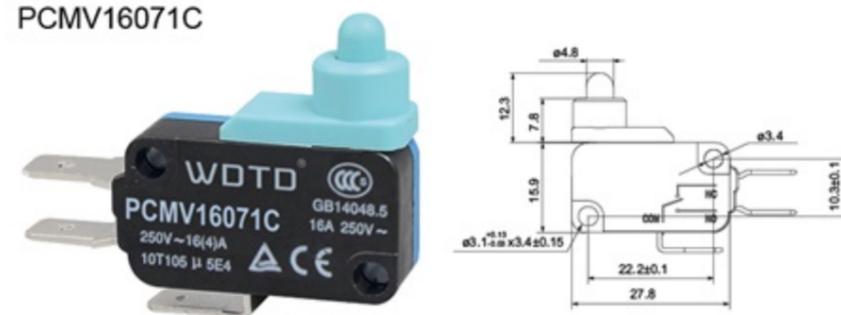
PCMV16061C



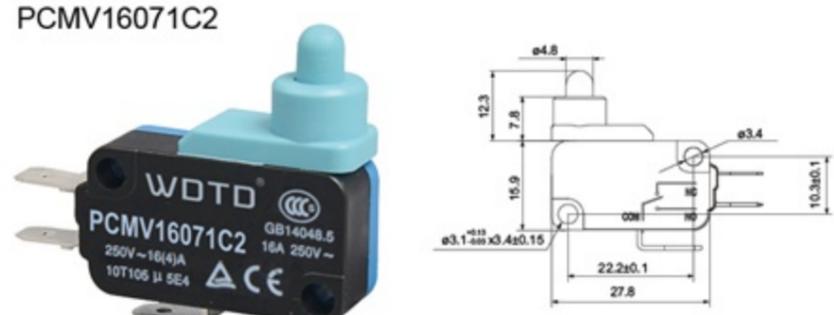
PCMV16061C2



PCMV16071C



PCMV16071C2

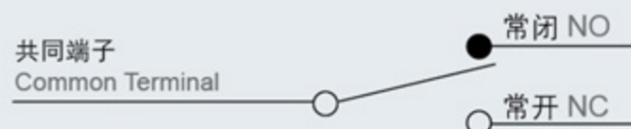




特点 Features

- 塑料外壳与金属外壳可供选择
- Plastic shell and metal shell are for selection

接点型式 Contact Form



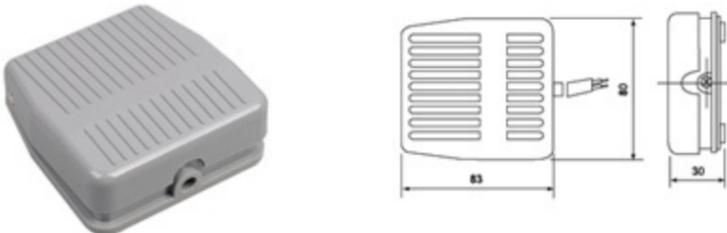
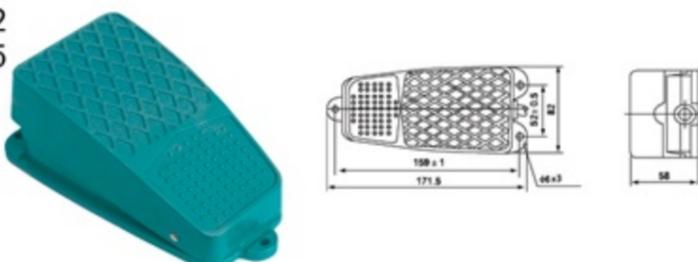
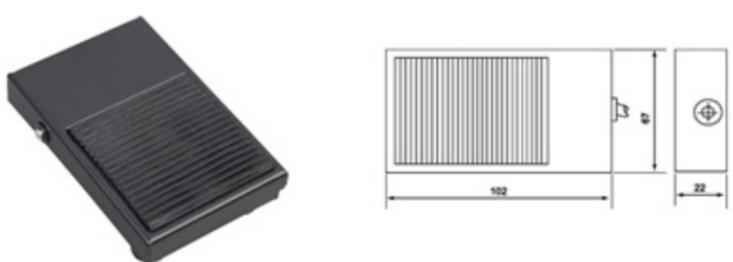
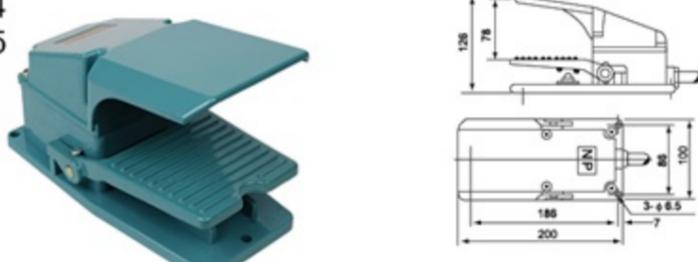
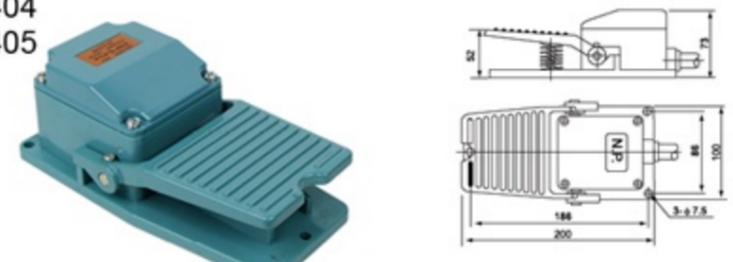
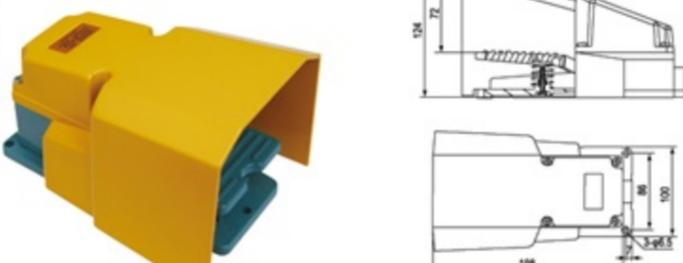
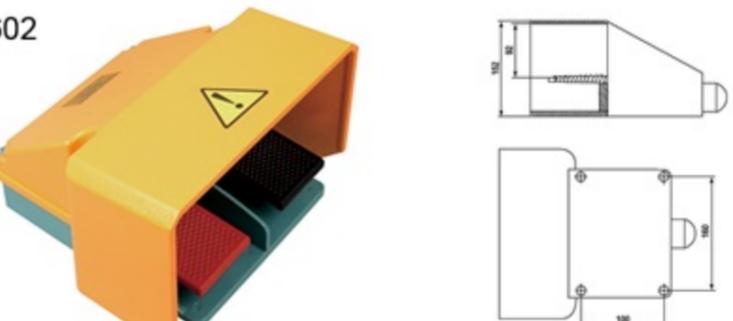
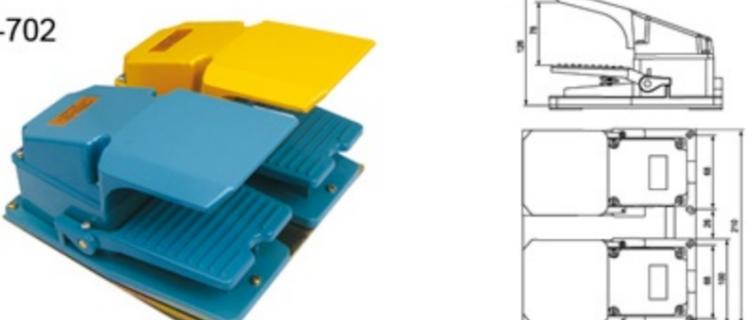
规格 Specifications

种类 Designation	型式 Model	负荷 Rating	微动开关形式 Type of switch enclosed & contact arrangement	电缆种类 / 长度 Cable type / length	接点 Contact	动作压力 Action force	外壳材质 Material of Rind
标准型 复归式 Standard type Momentary Action	PCFS-101	10A 250VAC	CMV-100D	0.75mm ² ,3C/0.5 meter(米),1 meter(米)~3 meter(米)	1A1B	1.2kg	塑胶 Plastic
	PCFS-102	15A 250VAC	CM-1704	0.75mm ² ,3C/1 meter(米),1.5 meter(米)~2 meter(米)	1A1B	1.1kg	
	PCFS-2	10A 250VAC	CMV-100D	0.5mm ² ,3C/1 meter(米)~3 meter(米)	1A1B	1.1kg	铝合金 Aluminum Cast
	PCFS-3	10A 250VAC	CMV-100D	0.75mm ² ,3C/0.5 meter(米),1 meter(米)~3 meter(米)	1A1B	1.2kg	
	PCFS-3S	15A 250VAC	CM-1704	0.75mm ² ,3C/1 meter(米),1 meter(米)~3 meter(米)	1A1B	1.1kg	
交替式 Alternate action	PCFS-105	10A 250VAC	CMVS-D	0.75mm ² ,3C/1 meter(米),1 meter(米)~2 meter(米)	1A1B	2kg	塑胶 Plastic
	PCFS-305	10A 250VAC	CMVS-D	附电缆固定头, 不附电缆 Accessory: Cable gland (No cable)		3.1kg	铝合金 Aluminum Cast
	PCFS-405	10A 250VAC	CMVS-D			3.1kg	
	PCFS-505	10A 250VAC	CMVS-D			3.1kg	
小型附 回定片 Mini foot switch Front end push	PCFS-201	10A 250VAC	CMV-100D		0.5mm ² ,3C/1 meter(米)~3 meter(米)	1A1B	0.7kg
	PCFS-01	10A 250VAC	CMV-100D	0.5mm ² ,3C/1 meter(米)~3 meter(米)	1A1B	0.7kg	铁壳 Iron
	PCFS-1	10A 250VAC	CMV-100D	0.5mm ² ,3C/1 meter(米)~3 meter(米)	1A1B	0.9kg	
护盖型 Protective guard foot switch	PCFS-302	15A 250VAC	CM-1704	附电缆固定头, 不附电缆 Accessory: Cable gland (No cable)	1A1B	3.2kg	铝合金 Aluminum Cast
	PCFS-304	15A 250VAC	CM-1704 * 2		2A2B	3.2kg	
	PCFS-502	15A250VAC	CM-1704		1A1B	3.2kg	
	PCFS-504	15A250VAC	CM-1704 * 2		2A2B	3.2kg	
	PCFS-602	15A250VAC	按钮弹簧式 Button spring type		2*1A1B	2.8kg	
	PCFS-702	15A250VAC	CM-1704		2*1A1B	3.2kg	
大型 Large type	PCFS-402	15A250VAC	CM-1704	附电缆固定头, 不附电缆 Accessory: Cable gland (No cable)	1A1B	3.2kg	铝合金 Aluminum Cast
	PCFS-404	15A 250VAC	CM-1704 * 2		2A2B	3.2kg	
	PCFS-802	15A 250VAC	CM-1704		2*1A1B	3.2kg	

注: 导管连接器尺寸常规默认为 M20x1.5, 配电缆接头; 导管连接器尺寸 PG13.5, 型号加 (-P), 例: PCFS-302-P.

NOTE: The default size of conduit connector is M20x1.5, outfitting cable connector. Conduit connector size is PG13.5, with product model number plus (-P), example:PCFS-302-P.

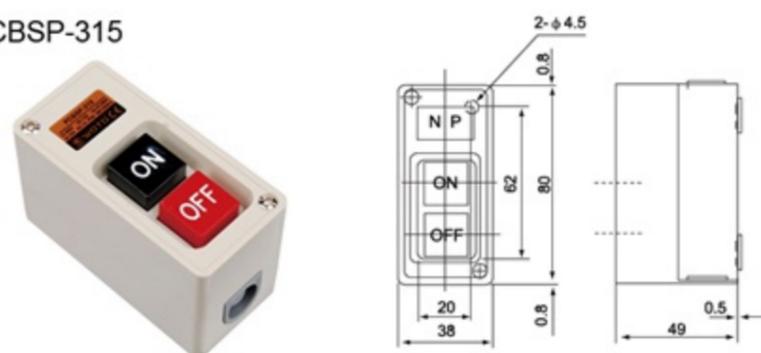
外观和尺寸 Appearance and Dimension

<p>PCFS-201</p> 	<p>PCFS-01</p> 
<p>PCFS-101 PCFS-102 PCFS-105</p> 	<p>PCFS-1</p> 
<p>PCFS-2</p> 	<p>PCFS-3 PCFS-3S</p> 
<p>PCFS-302 PCFS-304 PCFS-305</p> 	<p>PCFS-402 PCFS-404 PCFS-405</p> 
<p>PCFS-502 PCFS-504 PCFS-505</p> 	<p>PCFS-602</p> 
<p>PCFS-702</p> 	<p>PCFS-802</p> 

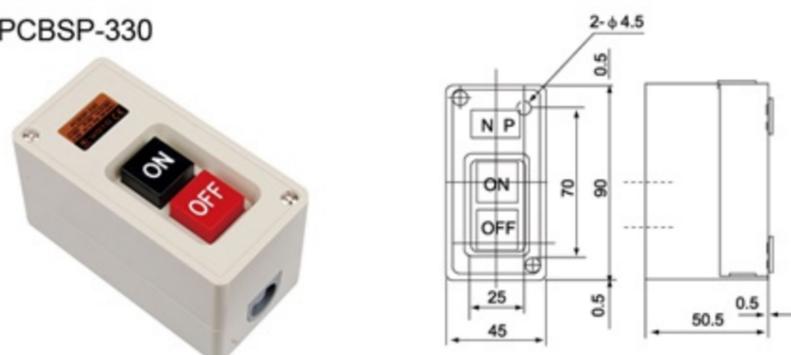


外观和尺寸 Appearance and Dimension

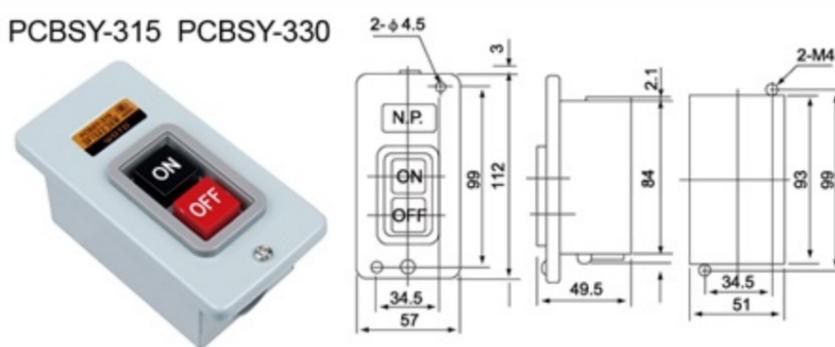
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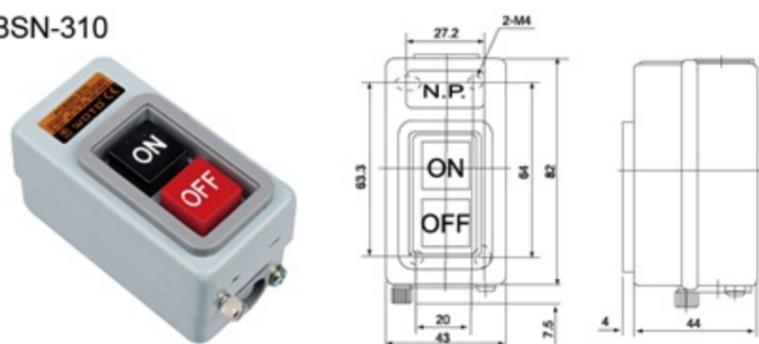
PCBSP-330



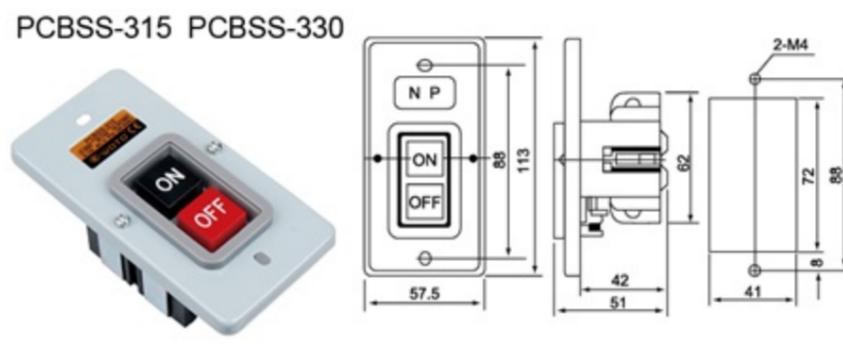
PCBSY-315 PCBSY-330



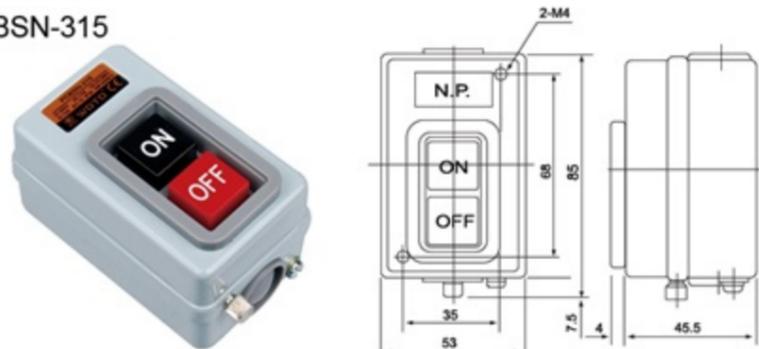
PCBSN-310



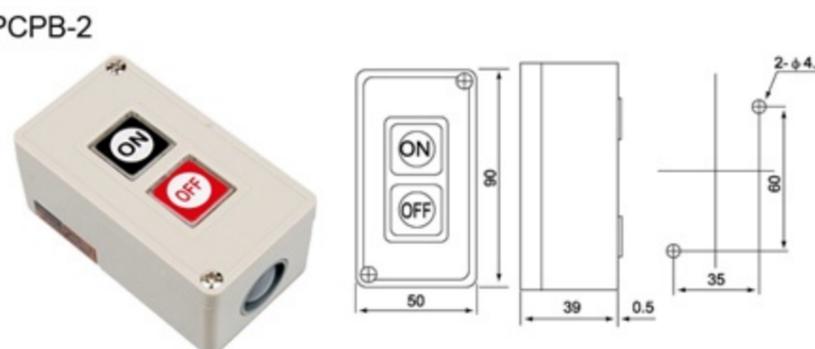
PCBSS-315 PCBSS-330



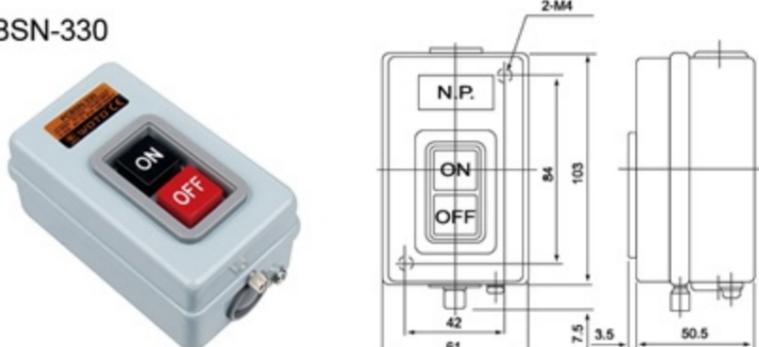
PCBSN-315



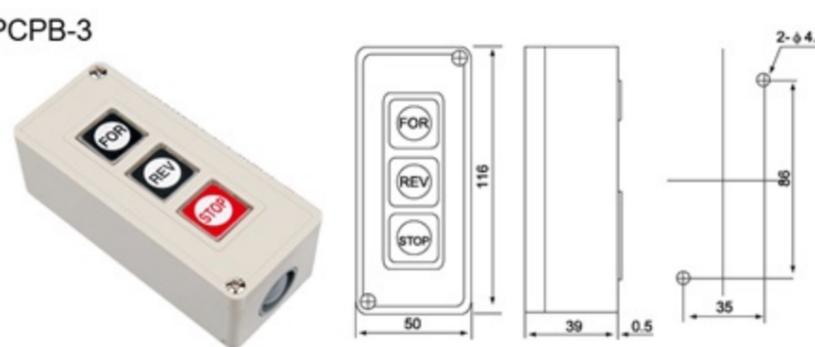
PCPB-2



PCBSN-330



PCPB-3

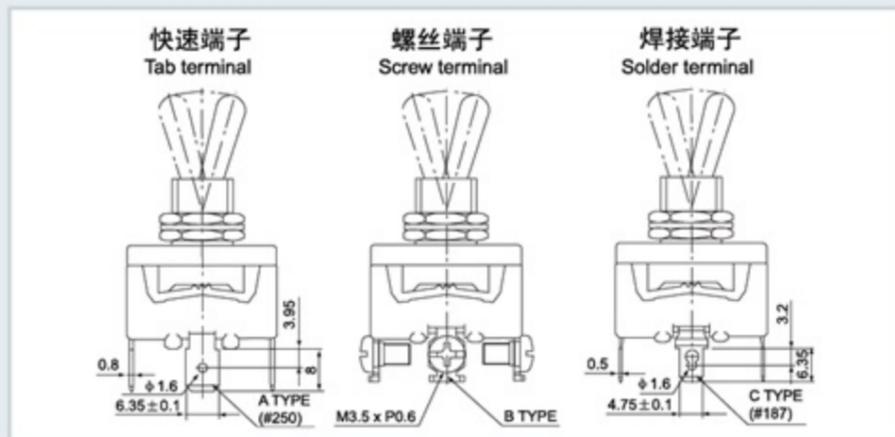


PC5 钮子开关 Toggle Switch



规格 Specifications

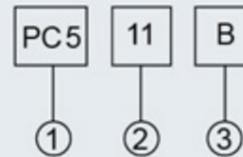
接触电阻 Contact resistance	15MΩ 以下 (初期值) max. (initial)
绝缘电阻 Insulation resistance	100MΩ 以上 above(在 500VDC 下) under 500VDC
电介强度 Dielectric strength	2000VAC, 50/60Hz 持续 1 分钟 For 1minute
振动 Vibration	10 至 55Hz, 1.5mm 双振幅 double amplitude
周围温度 Ambient temperature	使用时: -20~+70℃ (没有结冰) Using: -20~+70℃ (With no icing)
湿度 Humidity	85% 以下 85% RH max.
电气寿命 Electrical life	500,000 次以上 500,000 operations above



特点 Features

- 电流分 10A 及 15A
- 切换方式有固定式及复位式 (单投及双投皆可复归)
- 接线端子有螺丝端子及焊接端子 (亦可用快速端子)
- 防水套可防水、防油, 适用于全系列
- 固定孔径: $\phi 12\text{mm}$
- 10A type and 15A type for selection
- Fixed type and auto-return type (both single-throw and double-throw) for selection
- Screw terminal, solder terminal and tab terminal for selection
- Water-proof cap for water-proof and oil-proof
- Mounting hole: $\phi 12\text{mm}$

型号说明 Model Number Structure



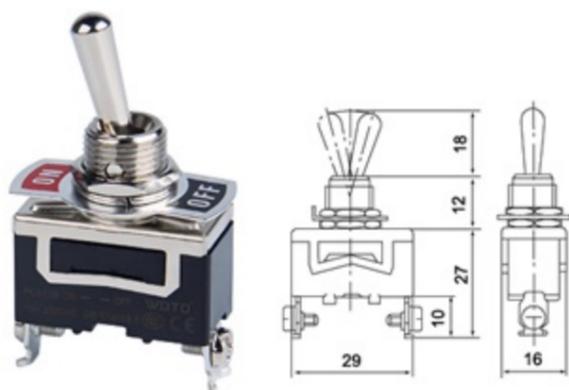
项目 Items	代号 Code	说明 Description
① 型式 Type	PCO	10A 250VAC 自锁 Self-locking
	PCOR	10A 250VAC 自动复位 Spring return
	PC5	15A 250VAC 自锁 Self-locking
	PC5R	15A 250VAC 自动复位 Spring return
② 接点 Contact	11	单极单投 Single pole single throw ON-OFF
	12	单极双投 Single pole double throw ON-ON
	13	单极双投 (中间 OFF) Single pole double throw (central OFF) ON-OFF-ON
	131	单极双投 (中间 OFF 单边复位) Single pole double throw (central OFF single return) ON-OFF-ON
	21	双极单投 Double pole single throw ON-OFF
	22	双极双投 Double pole double throw ON-ON
	23	双极双投 (中间 OFF) Double pole double throw (central OFF) ON-OFF-ON
	231	双极双投 (中间 OFF 单边复位) Double pole double throw (central OFF single return) ON-OFF-ON
③ 端子 Terminal	A	快速端子 Tab terminal (#250)
	B	螺丝端子 Screw terminal
	C	焊接端子 Solder terminal (#187)

额定值 Ratings

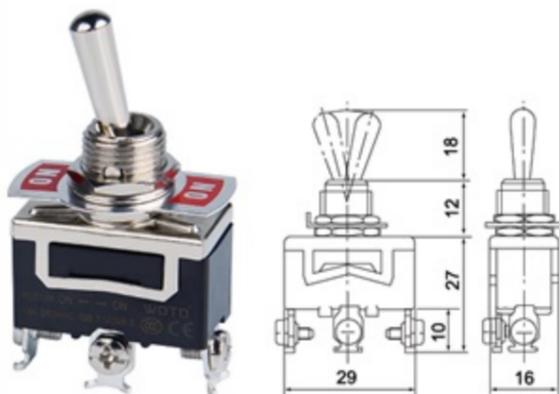
负载 Load	型式 Type	AC 负载 Rating	DC 负载 Rating
电阻性负载 Resistance Load	PCO	10A 250V 15A 125V	0.4A 250V 0.8A 125V
	PC5	15A 250V 20A 125V	0.5A 250V 0.9A 125V
电感性负载 Inductive Load	PCO	10A 250V 15A 250V	0.2A 250V 0.4A 125V
	PC5	15A 250V 20A 125V	0.3A 250V 0.5A 125V 15A
灯泡负载 Lamp Load	PCO	300W 100V 500W 200V	30V
	PC5	400W 125V 800W 250V	-
马达负载 Motor Load	PCO	200W 125V 300W 250V	7A 30V
	PC5	400W 125V(single phase)	-
	PCO	550W 250V(three phase)	-
	PC5	750W 250V(three phase)	-

外观和尺寸 Appearance and Dimension

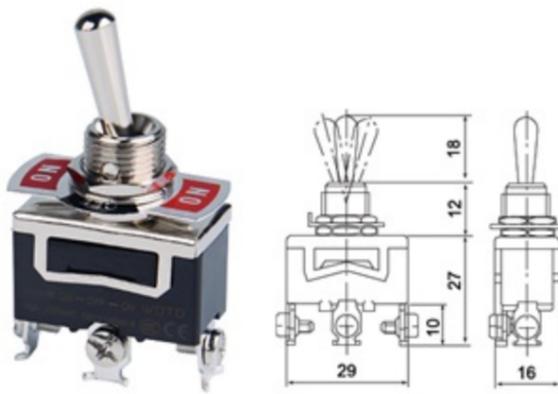
PC511B
PC5R11B



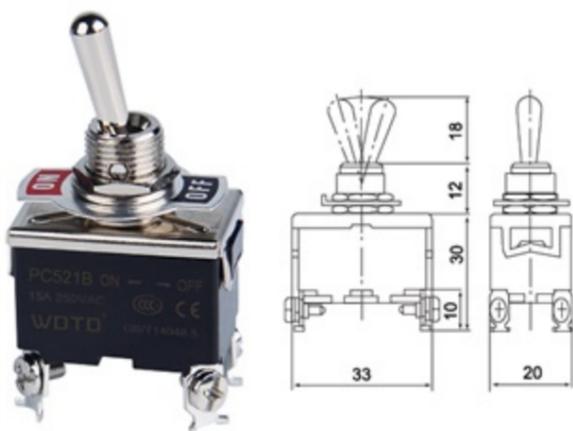
PC512B
PC5R12B



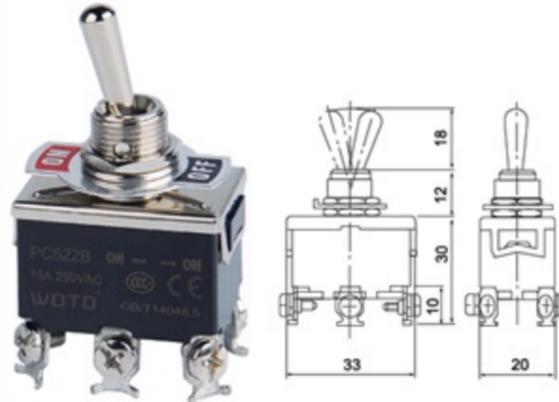
PC513B
PC5R13B



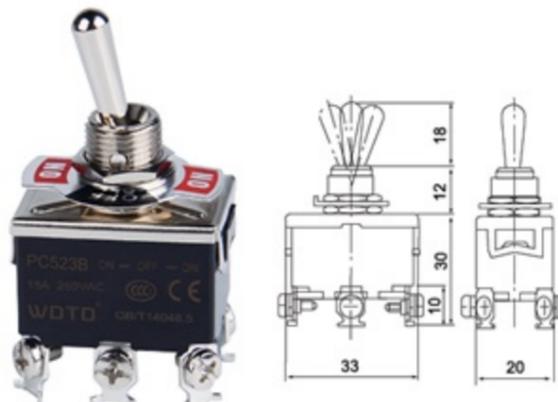
PC521B
PC5R21B



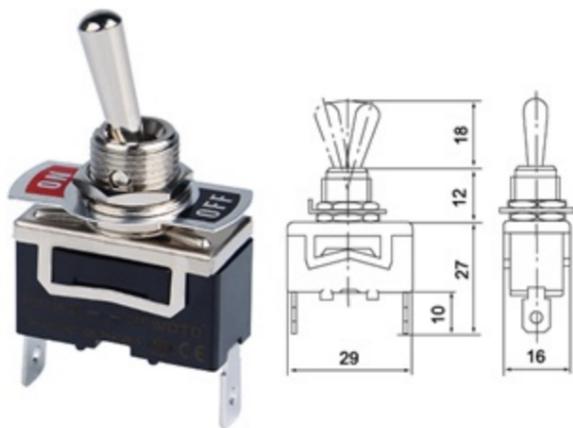
PC522B
PC5R22B



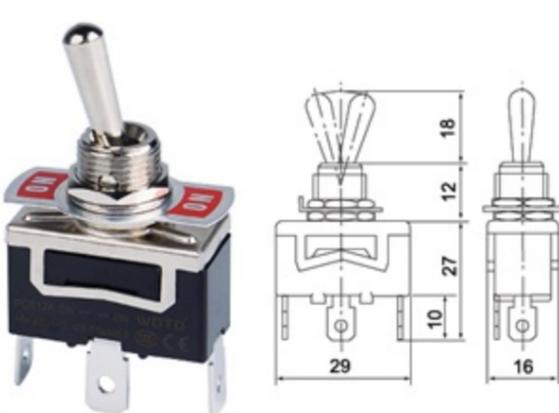
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PC5R23B



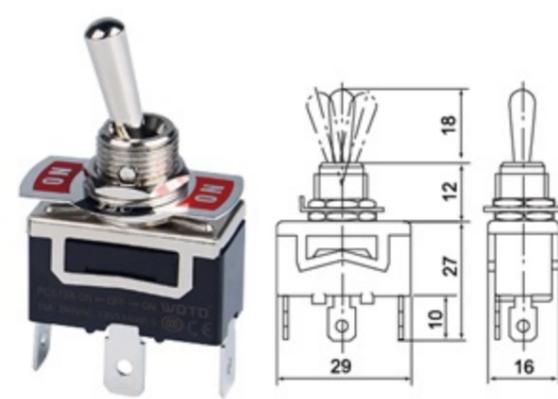
PC511A
PC5R11A



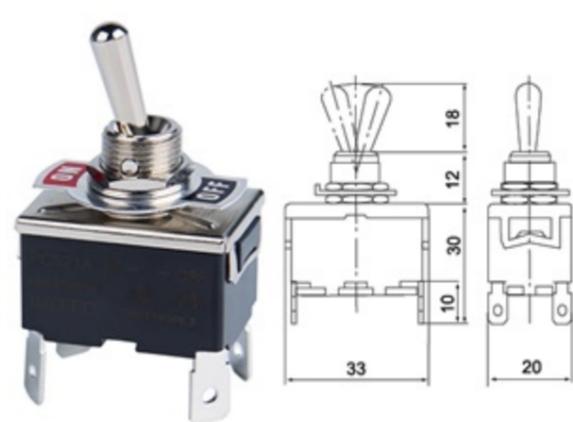
PC512A
PC5R12A



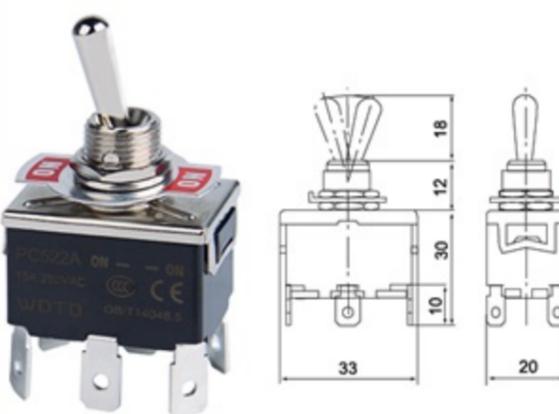
PC513A
PC5R13A



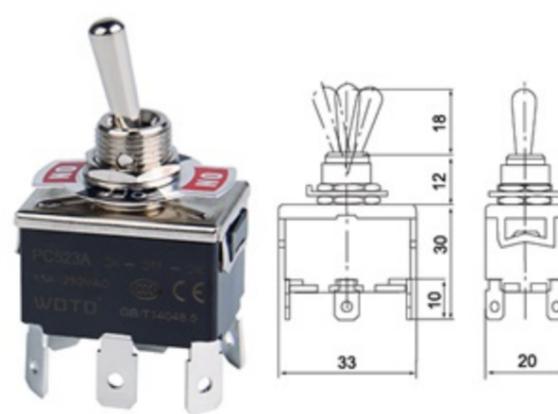
PC521A
PC5R21A



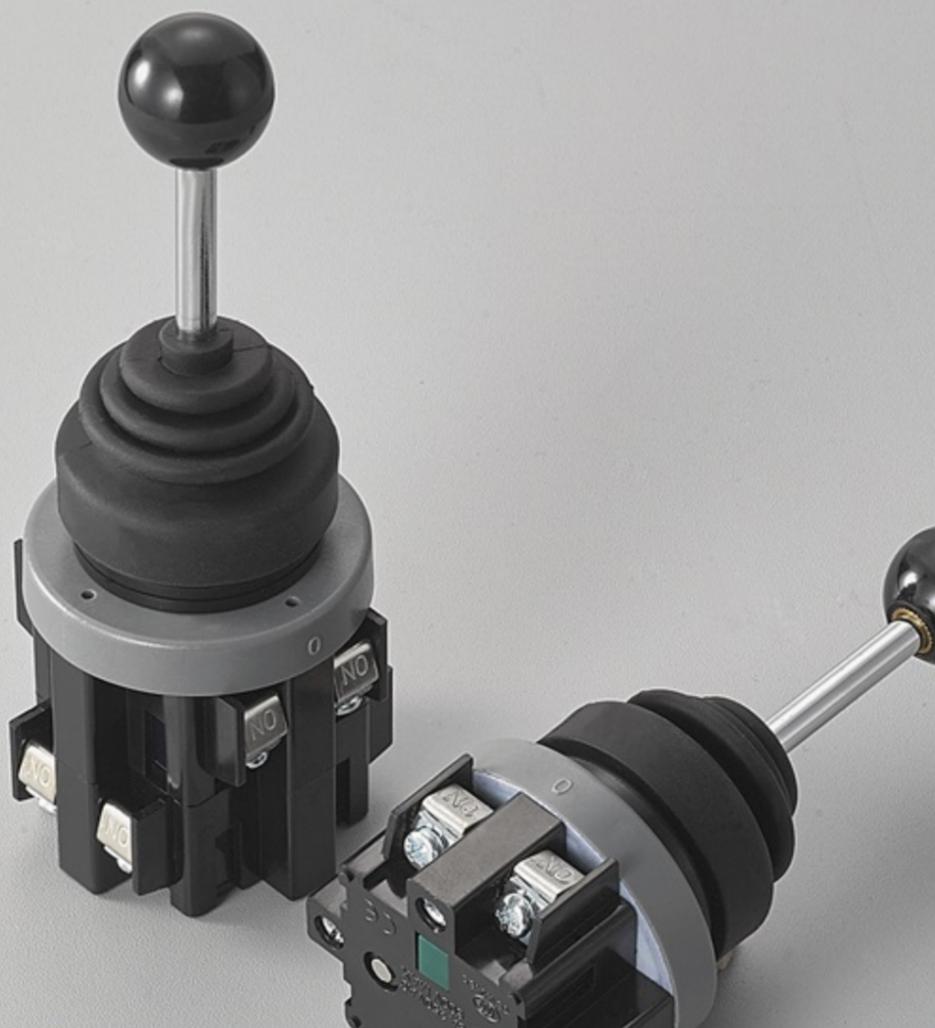
PC522A
PC5R22A



PC523A
PC5R23A



PCMR 十字开关 Monolever Switch



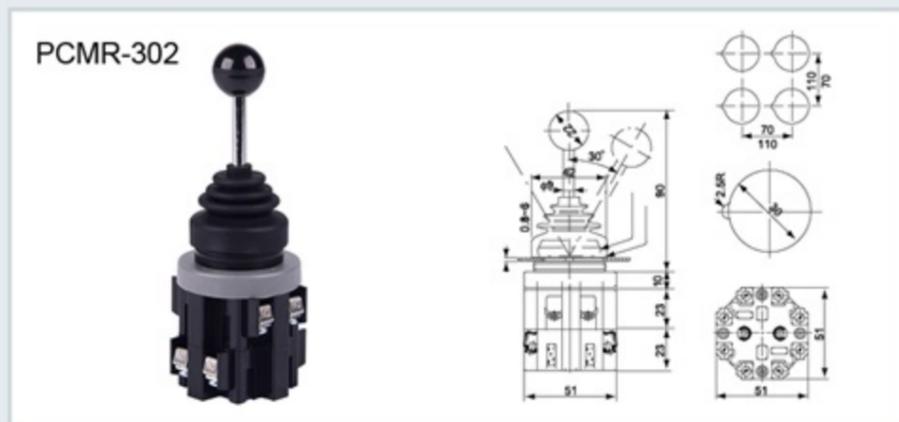
特点 Features

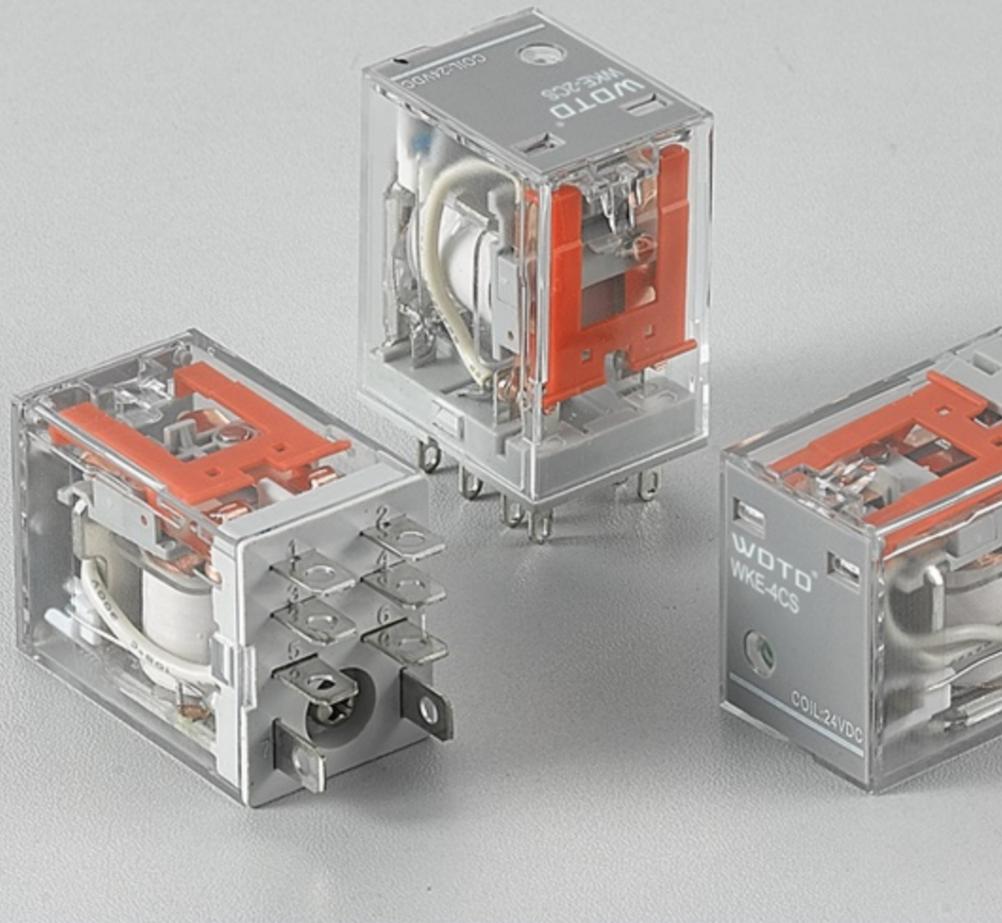
- 上、下、左、右四方向操作顺畅，具可任意选择一向、二向、三向、或四向
- 有保持、复位、无动作等三种操作方式
- 接点座有 2a(BR-1), 1a1b(BR-2), 2b(BE-3)。如下图可自由选择方向与接点之组合
- 具耐油、防水和防压结构
- Smoothly and swiftly handle the lever in four directions upward, rightward, downward, and leftward
- Three alternatives of movement are attainable in each direction: Go-on, auto-return, and blockade-enforcing
- Operate in four, three, or two directions with the switch
- Rubber bushing is water-proof, oil-resistant, and dustpreventive

额定值 Ratings

		额定电压 Rated voltage	110V	220V	440V
交流 AC	额定电流 Rated current		10A	6A	3A
	开断电流 Breaking current capacity		50A	30A	10A
	电阻性负载 Resistance Load	额定电压 Rated voltage	110V	220V	600V
直流 DC		额定电流 Rated Current	2.2A	1.1A	0.4A
		开断电流 Breaking Current	2.42A	1.21A	0.44A
	电感性负载 Inductive Load	额定电流 Rated Current	1.2A	0.45A	0.2A
		开断电流 Breaking Current	1.32A	0.5A	0.22A

外观和尺寸 Appearance and Dimension

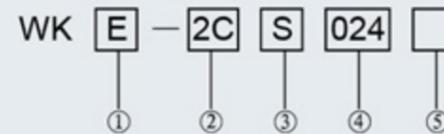




特点 Features

- 体积小，灵敏度高
- 触点负载大 2C: 5A/10A, 4C: 3A
- 多种规格，配有双向指示灯
- 带机械指示窗
- Small size and high sensitivity
- Large contact load 2C: 5A/10A, 4C: 3A
- Multiple specifications with two-way indicator
- With mechanical indicator window

型号说明 Model Number Structure



① 电流形式 (阻性) Current form(Resistance)	E: 电流负载 3A、5A E: Current load 3A、5A L: 电流负载 10A L: Current load 10A
② 触点形式 Contact form	2C: 2组 Set 4C: 4组 Set
③ 接线方式 Mount options	S: 插入式; P: 焊接式 S: Plug-in type; P: Welded type
④ 电压 Voltage	参考线圈规格代号 Reference coil specification code
⑤ 选项 Options	无: 标准型; LT: LED+ 测试按钮; LTD: LED+ 测试按钮 + 二极管 No, standard type; LT: LED+Test button LTD: LED+Test button+Diode

规格 Specifications

型号 Model	WKE-2CS	WKE-4CS	WKL-2CS
形式 Form	2C	4C	2C
负载 (阻性) Load(Resistance)	阻性 Resistance	5A/250VAC 30VDC	3A/250VAC 30VDC
	马达 Motor	1/6HP 240VAC	1/6HP 240VAC
切换功率 (阻性) Switching power (Resistance)	1750VA, 210W	750VA, 90W	2500VA, 300W
触点 Contact	接触电阻 (初始) Initial contact (resistance)	50m	≤ 100m
材料 Material	银合金 Ag alloy	银合金 Ag alloy	银合金 Ag alloy
电气寿命 (频率 1S 通, 1S 断) Electrical life(1s ON/ 1s OFF)	≥ 10 ⁵ 次 (1800 操作次数 / 小时) ≥ 10 ⁵ 次 (1800 Ops/h)	≥ 10 ⁵ 次 (1800 操作次数 / 小时) ≥ 10 ⁵ 次 (1800 Ops/h)	≥ 10 ⁵ 次 (1800 操作次数 / 小时) ≥ 10 ⁵ 次 (1800 Ops/h)
机械寿命 (频率 300 次 / 1 分钟) Mechanical life(300 times / 1 min)	≥ 10 ⁷ 次 (18000 操作次数 / 小时) ≥ 10 ⁷ 次 (18000 Ops/h)	≥ 10 ⁷ 次 (18000 操作次数 / 小时) ≥ 10 ⁷ 次 (18000 Ops/h)	≥ 10 ⁷ 次 (18000 操作次数 / 小时) ≥ 10 ⁷ 次 (18000 Ops/h)
吸合电压 (23℃) Pick-up voltage (23℃)	DC: ≥ 75% (额定电压), AC: ≥ 80% (额定电压) DC: 75% (Rated voltage), AC: 80% (Rated voltage)	DC: ≥ 75% (额定电压), AC: ≥ 80% (额定电压) DC: 75% (Rated voltage), AC: 80% (Rated voltage)	DC: ≥ 75% (额定电压), AC: ≥ 80% (额定电压) DC: 75% (Rated voltage), AC: 80% (Rated voltage)
释放电压 (23℃) Drop-out voltage (23℃)	DC: ≤ 10% (额定电压), AC: ≥ 30% (额定电压) DC: ≤ 10% (Rated voltage), AC: 30% (Rated voltage)	DC: ≤ 10% (额定电压), AC: ≥ 30% (额定电压) DC: ≤ 10% (Rated voltage), AC: 30% (Rated voltage)	DC: ≤ 10% (额定电压), AC: ≥ 30% (额定电压) DC: ≤ 10% (Rated voltage), AC: 30% (Rated voltage)
最大电压 (23℃) Maximum voltage (23℃)	110% (额定电压) 110% (Rated voltage)	110% (额定电压) 110% (Rated voltage)	110% (额定电压) 110% (Rated voltage)
绝缘电阻 Insulation resistance	≥ 500M (500VDC)	≥ 500M (500VDC)	≥ 500M (500VDC)
线圈功率 Coil operating power	DC(W)	约 0.9 Approx. 0.9	约 0.9 Approx. 0.9
	AC(VA)	约 1.2 Approx. 1.2	约 1.2 Approx. 1.2
吸合时间 (额定电压) Operate time (at nominal voltage)	≤ 20 ms	≤ 20 ms	≤ 20 ms
释放时间 (额定电压) Release time (at nominal voltage)	≤ 20 ms	≤ 20 ms	≤ 20 ms
初始耐压 Initial breakdown voltage	同极触点之间 Between open contacts	1000VAC/1min (漏电流 1mA) 1000VAC/1min (leakage current 1mA)	1000VAC/1min (漏电流 1mA) 1000VAC/1min (leakage current 1mA)
	异极触点之间 Between poles	1000VAC/1min (漏电流 1mA) 1000VAC/1min (leakage current 1mA)	1000VAC/1min (漏电流 1mA) 1000VAC/1min (leakage current 1mA)
	触点与线圈间 Between contacts and coil	1500VAC/1min (漏电流 1mA) 1500VAC/1min (leakage current 1mA)	1500VAC/1min (漏电流 1mA) 1500VAC/1min (leakage current 1mA)
环境温度 Ambient temperature	-25~+55℃	-25~+55℃	-25~+55℃
环境湿度 Humidity	35%~85%RH	35%~85%RH	35%~85%RH
大气压力 Air pressure	86~106KPa	86~106KPa	86~106KPa
耐冲击 Shock resistance	10G(正弦半波脉冲 : 11ms) 10G(sinusoidal half-wave pulse:11ms)	10G(正弦半波脉冲 : 11ms) 10G(sinusoidal half-wave pulse:11ms)	10G(正弦半波脉冲 : 11ms) 10G(sinusoidal half-wave pulse:11ms)
耐振动 Vibration resistance	10~55Hz 双振幅 : 1.0 mm 10~55Hz double-amplitude:1.0mm	10~55Hz 双振幅 : 1.0 mm 10~55Hz double-amplitude:1.0mm	10~55Hz 双振幅 : 1.0 mm 10~55Hz double-amplitude:1.0mm
安装方式 Mounting	插入式 plug in	插入式 plug in	插入式 plug in
重量 Unit weight	35g	40g	40g

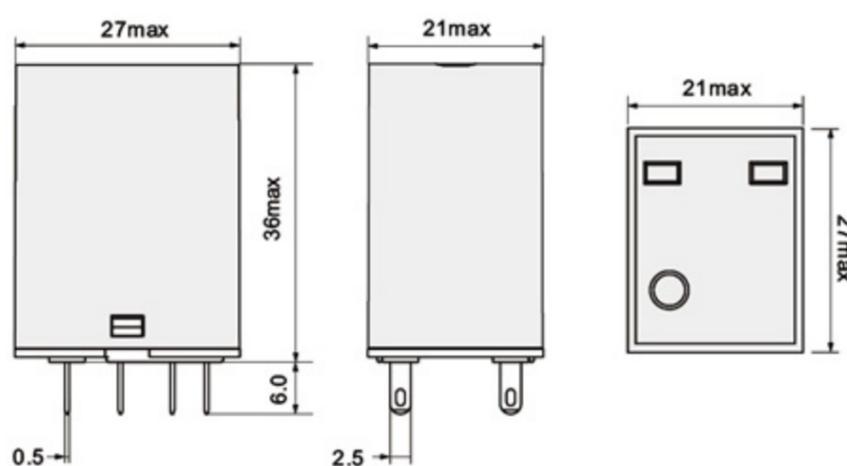
线圈规格 (23°C) Coil Specifications (23°C)

型号 Model	WKE-2CS、WKE-4CS、WKL-2CS							
电压代号 (DC) Voltage code(DC)	006	009	012 *	024 *	036	048 *	110	220
额定电压 V.DC Nominal voltage V.DC	6	9	12	24	36	48	110	220
线圈电阻 Ω Coil resistance Ω	40	90	180	640	1500	2600	13000	42000
电压代号 (AC) Voltage code(DC)	706	712	724 *	736	748 *	710	730 *	780
额定电压 V.AC Nominal voltage V.AC	6	12	24	36	48	110	230	380
线圈电阻 Ω Coil resistance Ω	11.5	40	180	370	640	4430	16500	42000

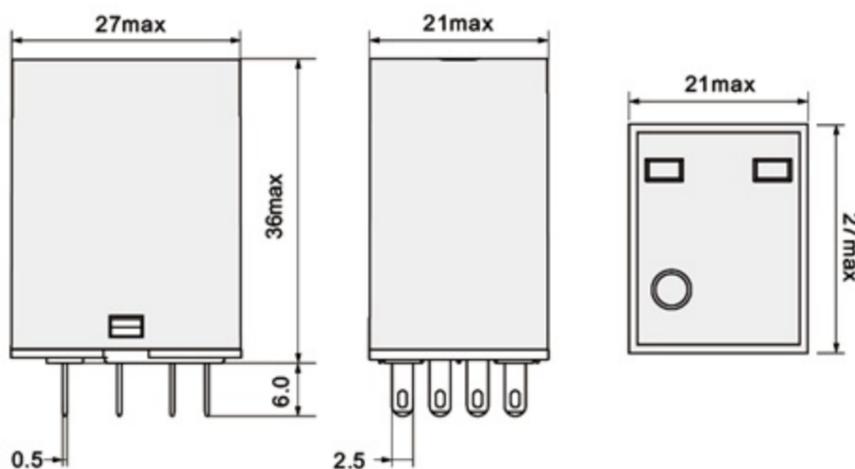
注: 带 *号为常规型号。

外观和尺寸 Appearance and Dimension

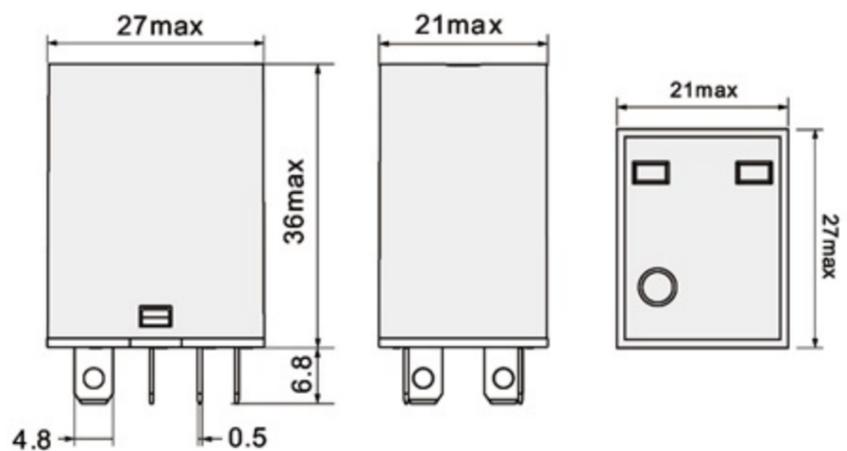
WKE-2CS



WKE-4CS



WKL-2CS



测试标准 Test standard

WKE-2CS

测试项目	测试标准	编号			
		1#	2#	3#	4#
吸合电压 V	≤ 184V	165.40	157.16	149.69	166.74
释放电压 V	≥ 70V	129.75	131.29	119.40	131.09
吸合时间 ms	≤ 20ms	7.70	7.68	7.14	12.93
释放时间 ms	≤ 20ms	13.43	14.34	15.16	13.11
线圈电阻 Ω	16500 Ω ± 10%	16300	16425	16263	16238
常开电阻 mΩ	≤ 50mΩ	22.1	32.1	30.0	35.3
常闭电阻 mΩ	≤ 50mΩ	21.9	26.6	29.6	32.8
电气绝缘 ≥ 500MΩ (500VDC)		✓	✓	✓	✓
同极耐压 ≥ 1000VAC/min		✓	✓	✓	✓
异极耐压 ≥ 2000VAC/min		✓	✓	✓	✓
线圈耐压 ≥ 2000VAC/min		✓	✓	✓	✓

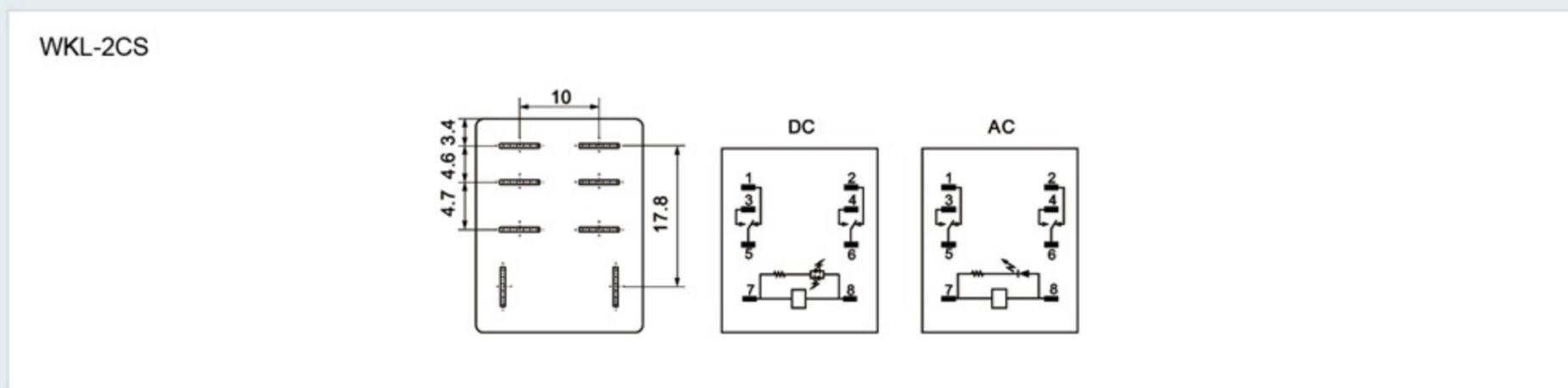
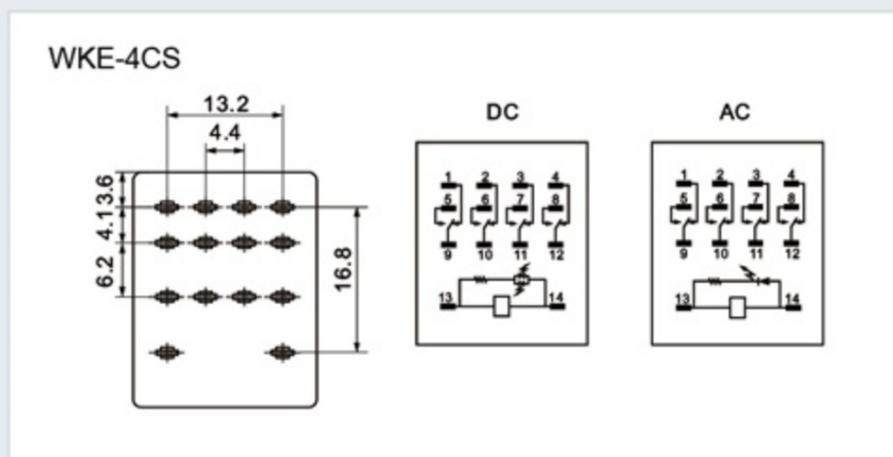
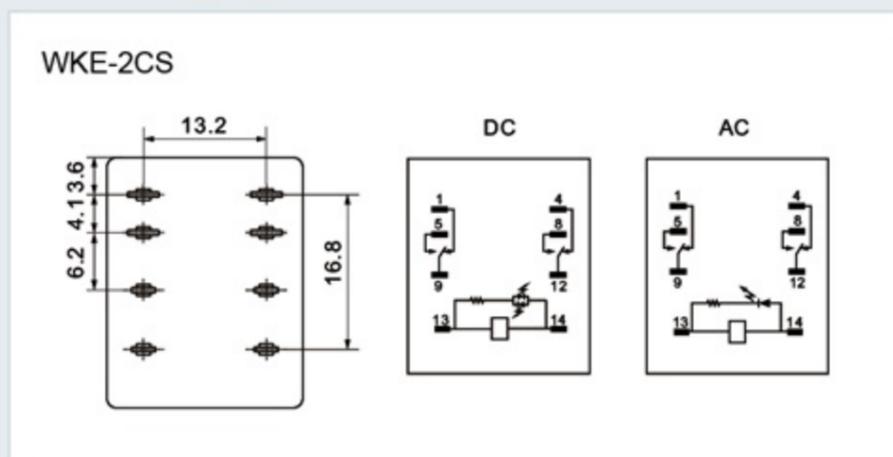
WKE-4CS

测试项目	测试标准	编号			
		1#	2#	3#	4#
吸合电压 V	≤ 184V	157.16	163.10	176.71	156.97
释放电压 V	≥ 70V	141.63	134.35	142.40	127.45
吸合时间 ms	≤ 20ms	6.72	14.20	14.74	7.16
释放时间 ms	≤ 20ms	12.52	13.40	12.58	15.01
线圈电阻 Ω	16500 Ω ± 10%	16438	16162	13863	13938
常开电阻 mΩ	≤ 50mΩ	17.6	26.6	17.0	23.1
常闭电阻 mΩ	≤ 50mΩ	22.4	27.1	15.4	30.7
电气绝缘 ≥ 500MΩ (500VDC)		✓	✓	✓	✓
同极耐压 ≥ 1000VAC/min		✓	✓	✓	✓
异极耐压 ≥ 2000VAC/min		✓	✓	✓	✓
线圈耐压 ≥ 2000VAC/min		✓	✓	✓	✓

WKL-2CS

测试项目	测试标准	编号			
		1#	2#	3#	4#
吸合电压 V	≤ 184V	163.49	154.67	158.70	154.48
释放电压 V	≥ 70V	125.15	124.96	119.98	128.60
吸合时间 ms	≤ 20ms	6.99	5.74	5.97	5.78
释放时间 ms	≤ 20ms	13.33	13.47	15.03	13.82
线圈电阻 Ω	16500 Ω ± 10%	16000	16338	15750	15987
常开电阻 mΩ	≤ 50mΩ	4.9	5.7	5.2	5.2
常闭电阻 mΩ	≤ 50mΩ	5.5	5.9	7.7	12.6
电气绝缘 ≥ 500MΩ (500VDC)		✓	✓	✓	✓
同极耐压 ≥ 1000VAC/min		✓	✓	✓	✓
异极耐压 ≥ 2000VAC/min		✓	✓	✓	✓
线圈耐压 ≥ 2000VAC/min		✓	✓	✓	✓

接线图 Wiring Diagram



继电器插座 Relay Socket

PCYF08A-E

负载电流 Load current	7A
负载电压 Load voltage	300V
介质耐压 Dielectric withstanding voltage	2500VAC/S

继电器插座附件

PCRS-E

PCYF08A-K

负载电流 Load current	7A
负载电压 Load voltage	300V
介质耐压 Dielectric withstanding voltage	2500VAC/S

继电器插座附件

PCRS-K

PCYF14A-E

负载电流 Load current	5A
负载电压 Load voltage	300V
介质耐压 Dielectric withstanding voltage	2500VAC/S

继电器插座附件

PCRS-E

PCYF14A-K

负载电流 Load current	5A
负载电压 Load voltage	300V
介质耐压 Dielectric withstanding voltage	2500VAC/S

继电器插座附件

PCRS-K

PCTF08A-E

负载电流 Load current	10A
负载电压 Load voltage	300V
介质耐压 Dielectric withstanding voltage	2500VAC/S

继电器插座附件

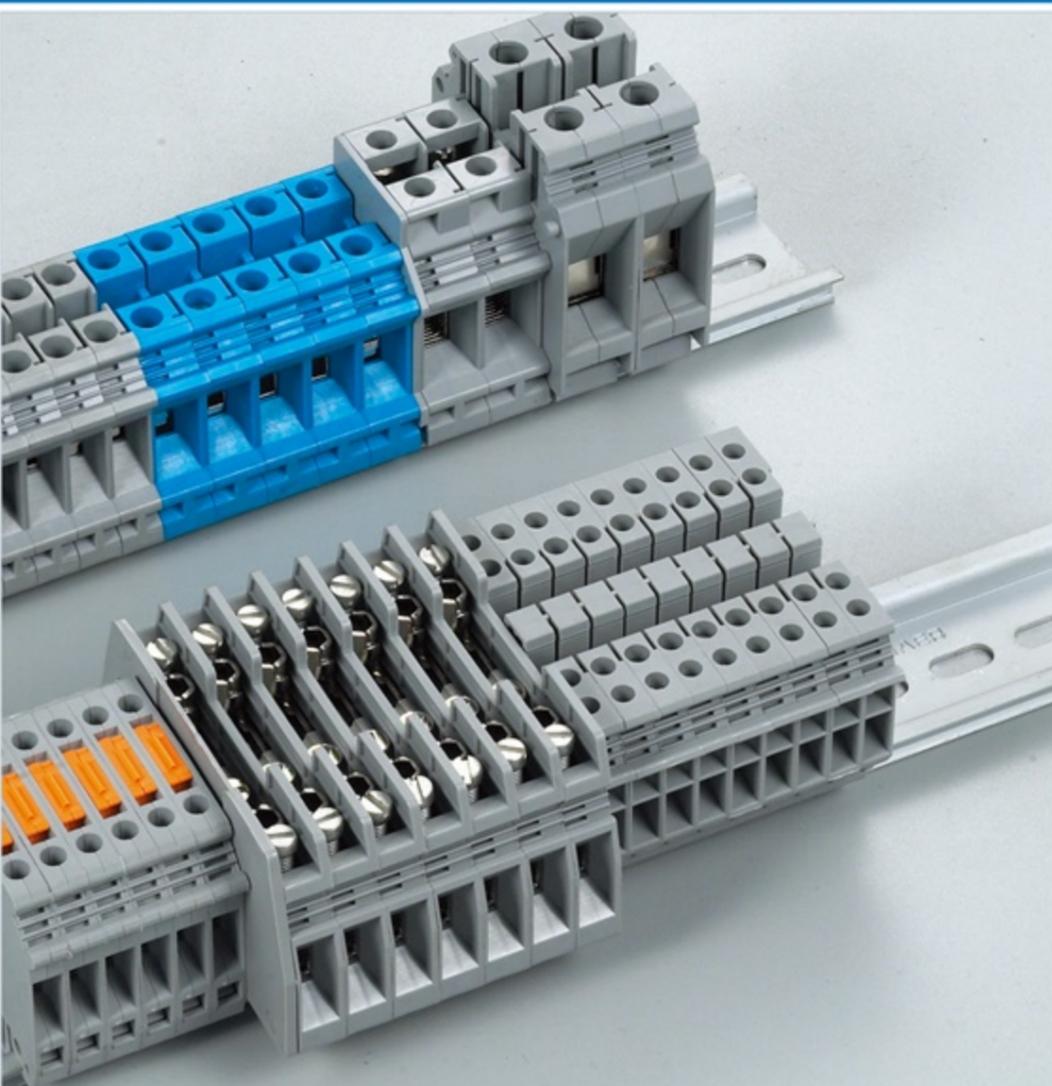
PCRS-E

PCTF08A-K

负载电流 Load current	10A
负载电压 Load voltage	300V
介质耐压 Dielectric withstanding voltage	2500VAC/S

继电器插座附件

PCRS-K



附件参数 Parameters

说明 Instructions

- (1) 终端隔板
(1) End claspboard 

- (2) 中心式联接件:
用于端子中央实现横向桥接, 10 位, 可分, 带 10 枚螺钉。
(2) Center connecting piece:
Use at the center of terminal for transverse bridge connection

- (3) 边插式联接件: 2 位
3 位
10 位 
(3) Side connecting piece: 2 digit
3 digit
10 digit

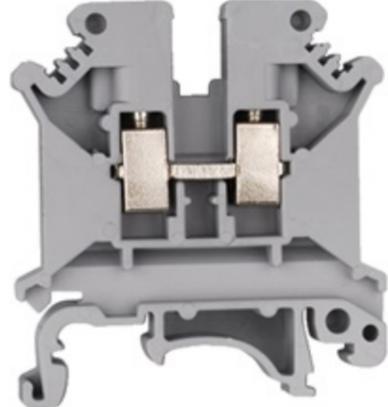
- (4) 标记号:
常规 1-100, 10 位一组, 若需特殊印字请说明。
(4) Mark symbol:
1-100, 10 for a group. Please explain if you have special demand.

- (5) 隔片: 隔片用于相邻接件间的电气隔离,
可事后插入 
(5) Septa: The spacer used in the electric segregation among
the adjoint hooknp. Can insert after installation.

- (6) 分组隔板 
(6) The packet claspboard

- (7) 通用终端固定件 
(7) Universal terminal fixture

外观和尺寸 Appearance and Dimension

PCUK 2.5B	PCUK 3N	PCUK 5N
		
刚性导线 (mm ²) 柔性导线 (mm ²) CE 0.2-4 0.2-2.5 配标记条 (ZB6) 电流 32A 电压 800V 在 □ 型、┌ 型	刚性导线 (mm ²) 柔性导线 (mm ²) CE 0.2-4 0.2-2.5 配标记条 (ZB5) 电流 32A 电压 800V 在 □ 型、┌ 型	刚性导线 (mm ²) 柔性导线 (mm ²) CE 0.2-6 0.2-4 配标记条 (ZB6) 电流 41A 电压 800V 在 □ 型、┌ 型

PCUK 6N



刚性导线 (mm ²)		柔性导线 (mm ²)	
CE 0.2-10	0.2-6	配标记条 (ZB8)	
电流 57A	电压 800V	在 □ 型、┌ 型	

PCUK 10N



刚性导线 (mm ²)		柔性导线 (mm ²)	
CE 0.5-16	0.5-10	配标记条 (ZB10)	
电流 76A	电压 800V	在 □ 型、┌ 型	

PCUK 16N



刚性导线 (mm ²)		柔性导线 (mm ²)	
CE 2-25	4-16	配标记条 (ZB10)	
电流 101A	电压 800V	在 □ 型、┌ 型	

PCUK 35



刚性导线 (mm ²)		柔性导线 (mm ²)	
CE 10-35	10-35	配标记条 (ZB10)	
电流 125A	电压 800V	在 □ 型、┌ 型	

PCUKH 50



刚性导线 (mm ²)		柔性导线 (mm ²)	
CE 16-50	25-50	配标记条 (ZB10)	
电流 150A	电压 1000V	在 □ 型、┌ 型	

PCUKH 95



刚性导线 (mm ²)		柔性导线 (mm ²)	
CE 25-95	35-95	配标记条 (ZB10)	
电流 232A	电压 1000V	在 □ 型、┌ 型	

PCUKK 3



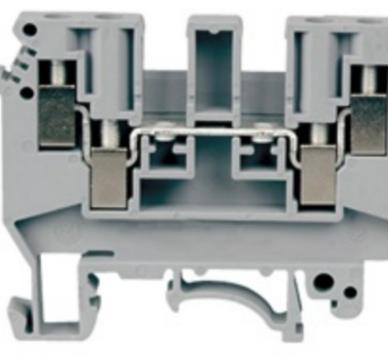
刚性导线 (mm ²)		柔性导线 (mm ²)	
CE 0.2-4	0.2-2.5	配标记条 (ZB5)	
电流 32A	电压 500V	在 □ 型、┌ 型	

PCUKK 5



刚性导线 (mm ²)		柔性导线 (mm ²)	
CE 0.2-4	0.2-4	配标记条 (ZB6)	
电流 32A	电压 500V	在 □ 型、┌ 型	

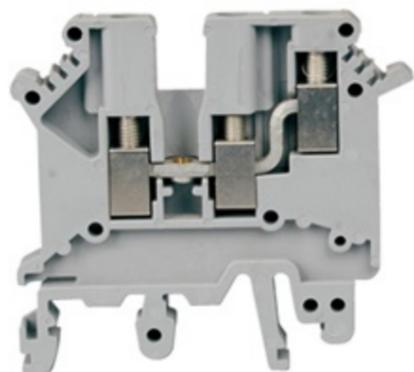
PCUDK4



刚性导线 (mm ²)		柔性导线 (mm ²)	
CE 0.2-6	0.2-4	配标记条 (ZB6)	
电流 32A*	电压 690V	在 □ 型、┌ 型	

*所有连接导线的电流总和不得超过最大负载总和。

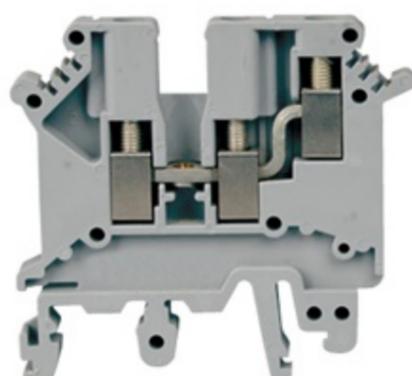
PCUK3-TWIN



刚性导线 (mm ²) 柔性导线 (mm ²)		配标记条 (ZB5) 在 □ 型、┘ 型
CE 0.2-2.5 电流 24A*	0.2-2.5 电压 400V	

*所有连接导线的电流总和不得超过最大负载总和。

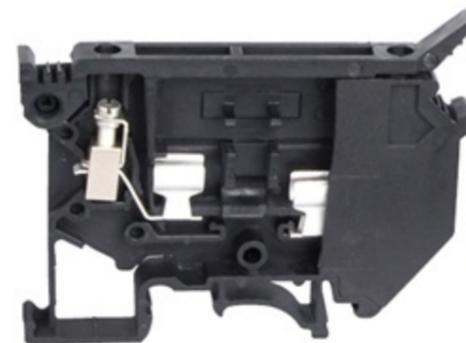
PCUK5-TWIN



刚性导线 (mm ²) 柔性导线 (mm ²)		配标记条 (ZB6) 在 □ 型、┘ 型
CE 0.2-4 电流 32A*	0.2-4 电压 500V	

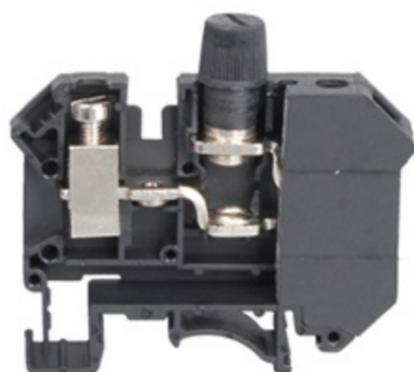
*所有连接导线的电流总和不得超过最大负载总和。

PCUK5-HESI



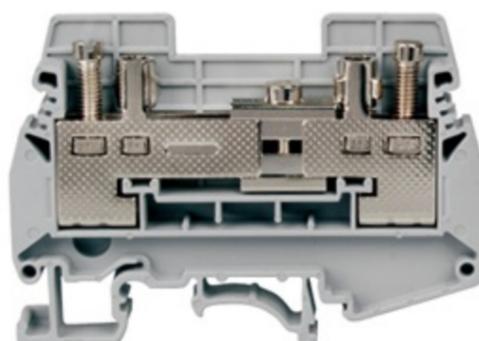
刚性导线 (mm ²) 柔性导线 (mm ²)		配标记条 (ZB8) 在 □ 型、┘ 型
CE 0.2-4 电流 6.3A	0.2-4 电压 800V	

PCUK10-DREHSI



刚性导线 (mm ²) 柔性导线 (mm ²)		配标记条 (ZB8) 在 □ 型、┘ 型
CE 电流 10A	电压 800V	

PCURTK/S



刚性导线 (mm ²) 柔性导线 (mm ²)		配标记条 (ZB8) 在 □ 型、┘ 型
CE 0.5-10 电流 57A	0.5-6 电压 400V	

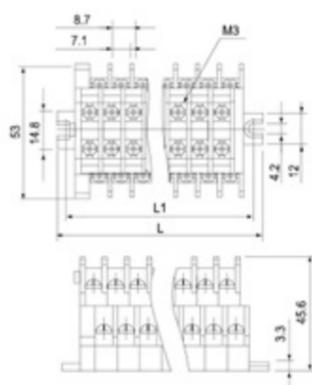
PCUK5-MTK-P/P



刚性导线 (mm ²) 柔性导线 (mm ²)		配标记条 (ZB6) 在 □ 型、┘ 型
CE 0.2-4 电流 16A	0.2-4 电压 800V	

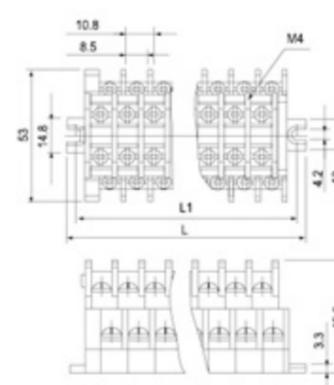
PCBD 双层板式螺钉压线端子
Double-layer Plate Type Screw Crimping Terminal

PCBD-10



L=21.6+8.7 × n
L1=15.2+8.7 × n
n=No. of Poles

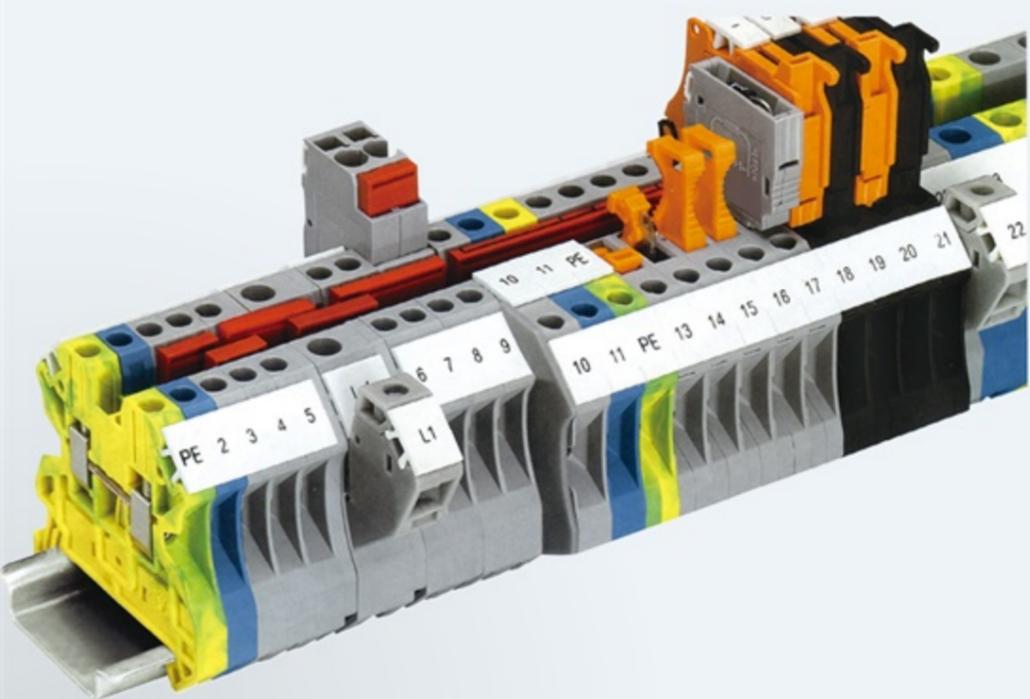
PCBD-20



L=20.6+10.8 × n
L1=15.2+10.8 × n
n=No. of Poles

PCUSLKG 通用接地端子

General Earthing Terminal



外观和尺寸 Appearance and Dimension

PCUSLKG 2.5

	刚性导线 (mm ²)	柔性导线 (mm ²)
CE	0.2-4	0.2-2.5
	电流 32A	
	配标记条 (ZB6) 在□型、┘型	



PCUSLKG 3

	刚性导线 (mm ²)	柔性导线 (mm ²)
CE	0.2-4	0.2-2.5
	电流 34A	
	配标记条 (ZB5) 在□型、┘型	



PCUSLKG 5

	刚性导线 (mm ²)	柔性导线 (mm ²)
CE	0.2-4	0.2-4
	电流 34A	
	配标记条 (ZB6) 在□型、┘型	



PCUSLKG 6

	刚性导线 (mm ²)	柔性导线 (mm ²)
CE	0.2-10	0.2-6
	电流 37A	
	配标记条 (ZB8) 在□型、┘型	



PCUSLKG 10

	刚性导线 (mm ²)	柔性导线 (mm ²)
CE	0.5-16	0.5-10
	电流 76A	
	配标记条 (ZB10) 在□型、┘型	



PCUSLKG 16

	刚性导线 (mm ²)	柔性导线 (mm ²)
CE	2.5-25	4-16
	电流 101A	
	配标记条 (ZB10) 在□型、┘型	



PCUSLKG 35

	刚性导线 (mm ²)	柔性导线 (mm ²)
CE	10-35	10-35
	电流 125A	
	配标记条 (ZB10) 在□型、┘型	



PCUSLKG 50

	刚性导线 (mm ²)	柔性导线 (mm ²)
CE	16-50	25-50
	电流 150A	
	配标记条 (ZB10) 在□型、┘型	



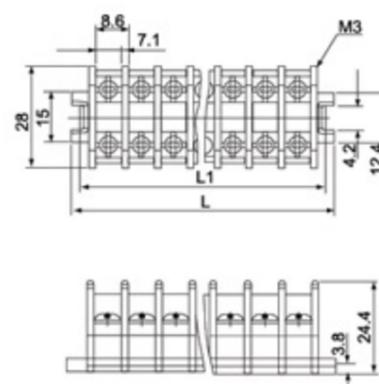


特点 Features

- 10P 以下，免除串接导轨，2P 直接互压即可，安装方便快捷
- 10P 以上长度，附加导轨，20P 以上可分成二段或三段先固定一段，可不受长度限制加长，且十分坚固
- PC 材料，耐高温，韧性强不碎裂
- Under 10P: no need for concatenated guide rail. 2P: can be mutual pressed directly. Installation is convenient and fast
- More than 10P: additional guide rail. More than 20P: can be divided into two or three parts and settle one part, length is not limited
- PC material, heat resistance, strong structure

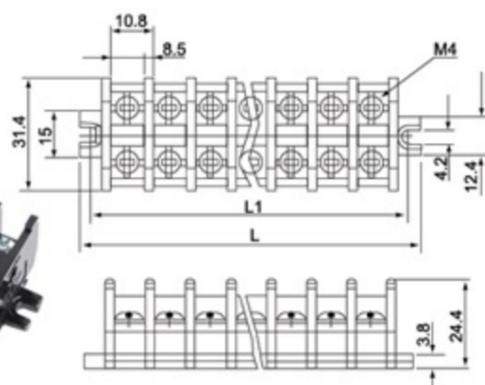
外观和尺寸 Appearance and Dimension

PCBC-10



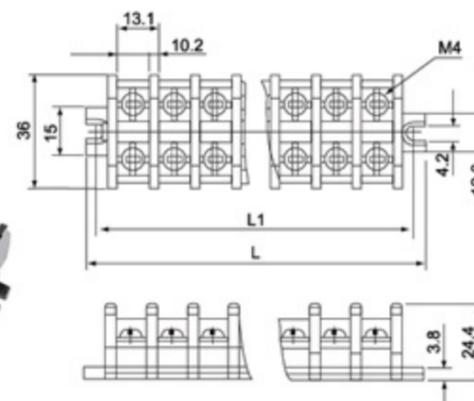
$L=16.7+8.6 \times n$
 $L1=10.3+8.6 \times n$
 n=P 数 No. of poles

PCBC-20



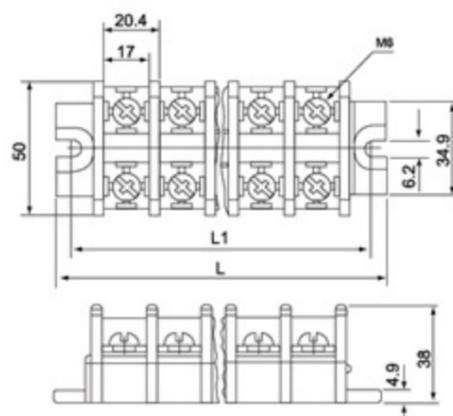
$L=17.3+10.8 \times n$
 $L1=11.2+10.8 \times n$
 n=P 数 No. of poles

PCBC-30



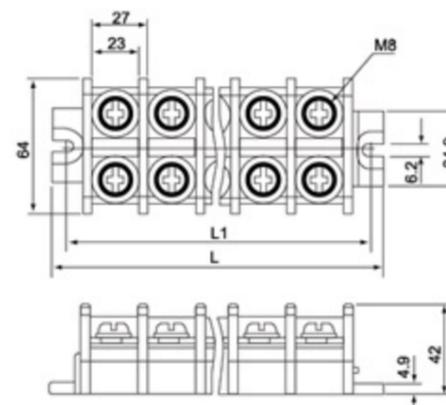
$L=18+13.1 \times n$
 $L1=11.5+13.1 \times n$
 n=P 数 No. of poles

PCBC-60



$L=33.5+20.4 \times n$
 $L1=18.5+20.4 \times n$
 n=P 数 No. of poles

PCBC-100



$L=34+27 \times n$
 $L1=19+27 \times n$
 n=P 数 No. of poles

PCBR 板式螺钉压线端子排

Plate Type Screw Crimping Terminal Block

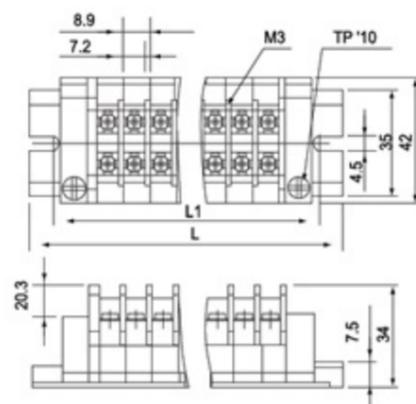


特点 Features

- 组合时，以端子盘之一端勾住道轨另一端用力压下即可
 - 拆卸时，以一字起子插入有沟槽之一端，往外撬起即可拆下
 - PC 材料，耐高温，韧性强不碎裂
- Combining: one terminal plate end hooks slide under the skeletons end and press hard
 - Disassembly: with straight screwdriver stand into a groove, pry up one end
 - PC material, heat resistance, strong structure

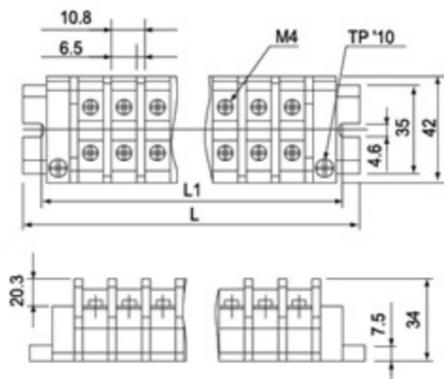
外观和尺寸 Appearance and Dimension

PCBR-10



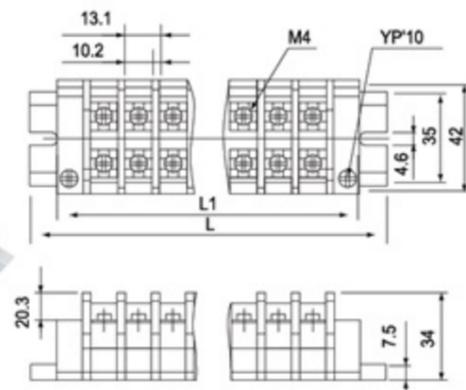
$L=38+8.9 \times n$
 $L1=22.5+8.9 \times n$
 $n=P$ 数 No. of poles

PCBR-20



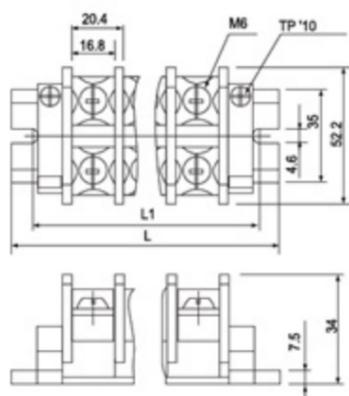
$L=38+10.8 \times n$
 $L1=22.5+10.8 \times n$
 $n=P$ 数 No. of poles

PCBR-30



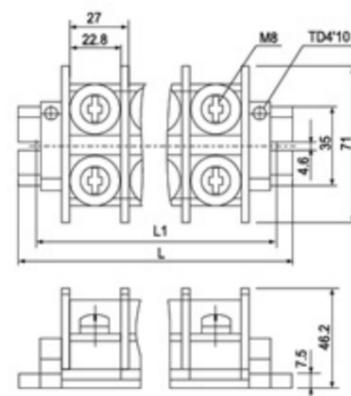
$L=38+13.1 \times n$
 $L1=22.5+13.1 \times n$
 $n=P$ 数 No. of poles

PCBR-60



$L=38+20.4 \times n$
 $L1=22.5+20.4 \times n$
 $n=P$ 数 No. of poles

PCBR-100



$L=38+27 \times n$
 $L1=22.5+27 \times n$
 $n=P$ 数 No. of poles



D-PCUK2.5 端板 End plate



D-PCUK3-10 端板 End plate



D-PCUK16 端板 End plate



D-PCUK3/5 端板 End plate



D-PCUKDK4 端板 End plate



D-PCUK5-TWIN 端板 End plate



D-PCURTK 端板 End plate



PCTS-K 隔片 Spacers



PFBI/10-5
中心连接件 Center connections



PFBI/10-6
中心连接件 Center connections



PFBI/10-8
中心连接件 Center connections



PFB10-RTK/S
中心连接件 Center connections



PFBI/10-10
中心连接件 Center connections



PFBI/10-12
中心连接件 Center connections



PFBI/10-15
中心连接件 Center connections



PEB10-5
边杆式连接件 Side stick-type connectors



PEB10-6
边杆式连接件 Side stick-type connectors



PEB10-8
边杆式连接件 Side stick-type connectors



PZB5
标记牌 Mark card



PZB6
标记牌 Mark card



PZB8
标记牌 Mark card



PZB10
标记牌 Mark card



PKLM-A
固定件 Fixing



PCUBE/A
固定件 Fixing



PCUBE/D
固定件 Fixing



E/PCUK
固定件 Fixing



PCBR-F
PCBR 固定件 PCBR Fixing



PCBR-F1
PCBR 固定件 PCBR Fixing



PCBC-F
PCBC 固定件 PCBC Fixing

PCJY 圆柱形接近开关

Proximity Sensor Cylindrical Type



特点 Features

- 橙色标识代表标准型产品
- 浅绿色标识代表高端型产品
- Orange mark for standard type
- Light green mark for high-end type
- 内置浪涌保护, 电源反接保护电路
- 寿命长, 高可靠性, 操作简单, 经济实惠
- 红色 LED 状态指示灯, 易于识别运行状态
- IP67 防护等级 (IEC 规格)
- 可以代替微动开关或限位开关广泛使用
- 采用专用 IC 提高抗干扰能力
- Inside surge protection, reverse polarity protection
- Long use-life cycle and high reliability, easy install, economic price
- Red LED status indication, easy to confirm work situation
- Protection structure IP67(IEC standard)
- Replaceable for limit switches
- Exclusively designed IC for improving anti-jamming capability

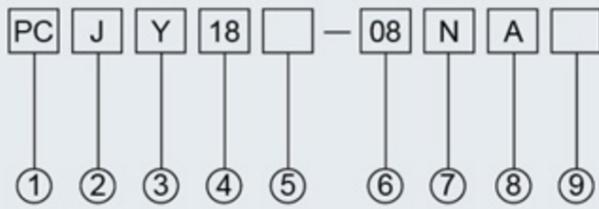


■ 橙色标准型
Orange



■ 浅绿色高端型
Light green

型号说明 Model Number Structure



项目 Item	代号 Code	说明 Description
① 公司代号 Company code	PC	公司代号 Company code
② 产品名称 Product name	J	电感式接近开关 Inductive proximity sensor
③ 外壳形状 Shape of shell	Y	圆柱形 Cylinder-shaped
④ 尺寸代码 Dimension code	18	18=M18
⑤ 产品类型 Product type	无 Without	无 Without = 高端型 High-end type (浅绿色头部 Light green head)
	E	E = 标准型 Standard type (橙色头部 Orange head)
⑥ 检测距离 Detection distance	08	08=8mm
⑦ 输出方式 Output mode	K	AC 二线 AC 2wires
	L	DC 二线 DC 2wires
	P	PNP 三线 PNP 3wires
	N	NPN 三线 NPN 3wires
⑧ 输出状态 Output state	A	常开 NO
	B	常闭 NC
	C	常开 + 常闭 NO+NC
⑨ 连接形式 Connection	无 Without	引线式 Without: Lead wire
	T	接插式 Plug-in
	R	配线引出接插式 Wiring leads Plug-in

规格 Specifications

直流 3 线式 DC 3-wire type

型号名 Model	高端型 High-end type	PCJY04-01NA PCJY04-01NB PCJY04-01PA PCJY04-01PB	PCJY05-01NA PCJY05-01NB PCJY05-01PA PCJY05-01PB	PCJY06-01NA PCJY06-01NB PCJY06-01PA PCJY06-01PB	PCJY6.5-1.5NA PCJY6.5-1.5NB PCJY6.5-1.5PA PCJY6.5-1.5PB
	标准型 Standard type	/	/	/	/
检测距离 Sensing distance	1mm		1mm	1mm	1.5mm
应差距离 Hysteresis	检测距离的 10% 以下 Max. 10% of sensing distance				
标准检测物 Standard sensing target	6×6×1mm (铁 Iron)		7×7×1mm (铁 Iron)	8×8×1mm (铁 Iron)	8×8×1.5mm (铁 Iron)
设定距离 Setting distance	0~0.8mm		0~0.8mm	0~1.0mm	0~6.5mm
电源 (使用电压范围) Power supply (Operating voltage)	12-24VDC (10-30VDC)				
漏电流 Leakage current	10mA 以下 Max.10mA				
应答频率 (※1) Response frequency (※1)	1500Hz	1500Hz	1000Hz	1000Hz	1000Hz
残留电压 (※2) Residual voltage (※2)	1.0V 以下 Max. 1.0V				
温度的影响 Affection by Temp.	在 -25~+70℃ 温度范围内 +20℃ 时的检测距离的 ± 10% 以内 Max. ± 10% for sensing distance at ambient temperature 20℃				
控制输出 Control output	200mA 以下 Max. 200mA				
绝缘阻抗 Insulation resistance	50MΩ 以上 (500VDC 为基准) Min. 50MΩ (at 500VDC megger)				
耐电压 Dielectric strength	1500VAC 50/60Hz 1 分钟 1500VAC 50/60Hz for 1minute				
耐振动 Vibration	10~55Hz(周期 1 分钟) 振幅 1mm X, Y, Z 各方向 2 小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours				
耐冲击 Shock	500m/s ² (50G) X, Y, Z 各方向 3 次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times				
显示灯 Indicator	动作指示灯 (红色 LED) Operation indicator(red LED)				
使用周围温度 Ambient temperature	-25~+70℃ (未结冰状态 No icing)				
储存温度 Storage temperature	-30~+80℃ (未结冰状态 No icing)				
使用周围湿度 Ambient humidity	35~95%RH (未结露状态 No condensation)				
保护电路 Protection circuit	内置浪涌保护, 电源反接保护, 过流保护电路 Surge protection circuit, Reverse polarity protection circuit, Overcurrent protection circuit				
材质 Material	外壳 / 螺母: 镀镍黄铜, 垫片: 镍镀铁, 检测面: PBT, 一般线缆 (灰色): 聚氯乙烯 (PVC), 耐油性线缆 (黑色): 聚氯乙烯 (耐油强化型 PVC) Case/Nut: Nickel plated Brass, Washer: Nickel plated Iron, Sensing surface: PBT, Standard cable(Grey): Polyvinyl chloride(PVC), Oil resistant cable(Black): Oil resistant Polyvinyl chloride(PVC)				
连接线缆 Cable	φ 2.8, 3P, 2m				
	AWG22, 芯线直径 :0.1mm, 芯线数 :22, 绝缘皮外径 : φ 1.25mm) AWG22, Core diameter: 0.1mm, Number of cores: 22, Insulator diameter: φ 1.25				
防护等级 Protection	IP67				

(※1) 开关动作的应答频率为平均值。测定条件使用标准检测物, 检测物的间距为标准检测物的 2 倍, 设定距离为检测距离的 1/2。

(※1): The response frequency is the average value. The standard sensing target is used and the width is set as 2 times of the standard sensing target, 1/2 of the sensing distance for the distance.

规格 Specifications

直流 3 线式 DC 3-wire type

型号名 Model	高端型 High-end type	PCJY08-01NA PCJY08-01NB PCJY08-01PA PCJY08-01PB	PCJY08-02NA PCJY08-02NB PCJY08-02PA PCJY08-02PB	PCJY12-02NA PCJY12-02NB PCJY12-02NC PCJY12-02PA PCJY12-02PB PCJY12-02PC	PCJY12-04NA PCJY12-04NB PCJY12-04NC PCJY12-04PA PCJY12-04PB PCJY12-04PC	PCJY18-05NA PCJY18-05NB PCJY18-05NC PCJY18-05PA PCJY18-05PB PCJY18-05PC	PCJY18-08NA PCJY18-08NB PCJY18-08NC PCJY18-08PA PCJY18-08PB PCJY18-08PC	PCJY30-10NA PCJY30-10NB PCJY30-10NC PCJY30-10PA PCJY30-10PB PCJY30-10PC	PCJY30-15NA PCJY30-15NB PCJY30-15NC PCJY30-15PA PCJY30-15PB PCJY30-15PC
	标准型 Standard type	PCJY08E-01NA PCJY08E-01NB PCJY08E-01PA PCJY08E-01PB	PCJY08E-02NA PCJY08E-02NB PCJY08E-02PA PCJY08E-02PB	PCJY12E-02NA PCJY12E-02NB PCJY12E-02NC PCJY12E-02PA PCJY12E-02PB PCJY12E-02PC	PCJY12E-04NA PCJY12E-04NB PCJY12E-04NC PCJY12E-04PA PCJY12E-04PB PCJY12E-04PC	PCJY18E-05NA PCJY18E-05NB PCJY18E-05NC PCJY18E-05PA PCJY18E-05PB PCJY18E-05PC	PCJY18E-08NA PCJY18E-08NB PCJY18E-08NC PCJY18E-08PA PCJY18E-08PB PCJY18E-08PC	PCJY30E-10NA PCJY30E-10NB PCJY30E-10NC PCJY30E-10PA PCJY30E-10PB PCJY30E-10PC	PCJY30E-15NA PCJY30E-15NB PCJY30E-15NC PCJY30E-15PA PCJY30E-15PB PCJY30E-15PC
检测距离 Sensing distance		1mm	2mm	2mm	4mm	5mm	8mm	10mm	15mm
应差距离 Hysteresis	检测距离的 10% 以下 Max. 10% of sensing distance								
标准检测物 Standard sensing target		8 × 8 × 1mm (铁 Iron)		12 × 12 × 1mm (铁 Iron)		18 × 18 × 1mm (铁 Iron)	25 × 25 × 1mm (铁 Iron)	30 × 30 × 1mm (铁 Iron)	45 × 45 × 1mm (铁 Iron)
设定距离 Setting distance		0~0.8mm	0~1.4mm	0~1.4mm	0~2.8mm	0~3.5mm	0~5.6mm	0~7mm	0~10.5mm
电源 (使用电压范围) Power supply (Operating voltage)	12-24VDC (10-30VDC)								
漏电流 Leakage current	10mA 以下 Max. 10mA								
应答频率 (*1) Response frequency (*1)	1000Hz	1000Hz	1000Hz	500Hz		350Hz	400Hz(高端) 350Hz(标准)	200Hz	
残留电压 Residual voltage	1.0V 以下 Max. 1.0V								
温度的影响 Affection by Temp.	在 -25~+70℃ 温度范围内 +20℃ 时的检测距离的 ± 10% 以内 Max. ± 10% for sensing distance at ambient temperature 20℃								
控制输出 Control output	200mA 以下 Max. 200mA								
绝缘阻抗 Insulation resistance	50MΩ 以上 (500VDC 为基准) Min. 50MΩ (at 500VDC megger)								
耐电压 Dielectric strength	1500VAC 50/60Hz 1 分钟 1500VAC 50/60Hz for 1minute								
耐振动 Vibration	10~55Hz(周期 1 分钟) 振幅 1mm X, Y, Z 各方向 2 小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours								
耐冲击 Shock	500m/s ² (50G) X, Y, Z 各方向 3 次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times								
显示灯 Indicator	动作指示灯 (红色 LED) Operation indicator(red LED)								
使用周围温度 Ambient temperature	-25~+70℃ (未结冰状态 No icing)								
储存温度 Storage temperature	-30~+80℃ (未结冰状态 No icing)								
使用周围湿度 Ambient humidity	35~95%RH (未结露状态 No condensation)								
保护电路 Protection circuit	内置浪涌保护, 电源反接保护, 过流保护电路 Surge protection circuit, Reverse polarity protection circuit, Overcurrent protection circuit								
材质 Material	外壳 / 螺母: 镀镍黄铜, 垫片: 镍镀铁, 检测面: PBT, 一般线缆 (灰色): 聚氯乙烯 (PVC), 耐油性线缆 (黑色): 聚氯乙烯 (耐油强化型 PVC) Case/Nut: Nickel plated Brass, Washer: Nickel plated Iron, Sensing surface: PBT, Standard cable(Grey): Polyvinyl chloride(PVC), Oil resistant cable(Black): Oil resistant Polyvinyl chloride(PVC)								
连接线缆 Cable	高端型 High-end type	φ 2.8, 3P, 2m (AWG22, 芯线直径 :0.1mm, 芯线数 :22, 绝缘皮外径 : φ 1.25mm) (AWG22, Core diameter: 0.1mm, Number of cores: 22, Insulator diameter: φ 1.25)		φ 3.8, 3P, 4P 2m (AWG22, 芯线直径 :0.1mm, 芯线数 :25, 绝缘皮外径 : φ 1.25mm) (AWG22, Core diameter: 0.1mm, Number of cores: 25, Insulator diameter: φ 1.25)		φ 4.8, 3P, 4P 2m (AWG22, 芯线直径 :0.1mm, 芯线数 :30, 绝缘皮外径 : φ 1.25mm) (AWG22, Core diameter: 0.1mm, Number of cores: 30, Insulator diameter: φ 1.25)			
	标准型 Standard type	φ 2.8, 3P, 1.5m (AWG22, 芯线直径 :0.1mm, 芯线数 :22, 绝缘皮外径 : φ 1.25mm) (AWG22, Core diameter: 0.1mm, Number of cores: 22, Insulator diameter: φ 1.25)		φ 3.8, 3P, 4P 1.5m (AWG22, 芯线直径 :0.1mm, 芯线数 :25, 绝缘皮外径 : φ 1.25mm) (AWG22, Core diameter: 0.1mm, Number of cores: 25, Insulator diameter: φ 1.25)		φ 4.8, 3P, 4P 1.5m (AWG22, 芯线直径 :0.1mm, 芯线数 :30, 绝缘皮外径 : φ 1.25mm) (AWG22, Core diameter: 0.1mm, Number of cores: 30, Insulator diameter: φ 1.25)			
防护等级 Protection	IP67								

(*1) 开关动作的应答频率为平均值。测定条件使用标准检测物, 检测物的间距为标准检测物的 2 倍, 设定距离为检测距离的 1/2。

(*1): The response frequency is the average value. The standard sensing target is used and the width is set as 2 times of the standard sensing target, 1/2 of the sensing distance for the distance.

规格 Specifications

直流 2 线式 DC 2-wire type

型号名 Model	高端型 High-end type	PCJY08-01LA PCJY08-01LB	PCJY08-02LA PCJY08-02LB	PCJY12-02LA PCJY12-02LB	PCJY12-04LA PCJY12-04LB	PCJY18-05LA PCJY18-05LB	PCJY18-08LA PCJY18-08LB	PCJY30-10LA PCJY30-10LB	PCJY30-15LA PCJY30-15LB
	标准型 Standard type	PCJY08E-01LA PCJY08E-01LB	PCJY08E-02LA PCJY08E-02LB	PCJY12E-02LA PCJY12E-02LB	PCJY12E-04LA PCJY12E-04LB	PCJY18E-05LA PCJY18E-05LB	PCJY18E-08LA PCJY18E-08LB	PCJY30E-10LA PCJY30E-10LB	PCJY30E-15LA PCJY30E-15LB
检测距离 Sensing distance		1mm	2mm	2mm	4mm	5mm	8mm	10mm	15mm
应差距离 Hysteresis		检测距离的 10% 以下 Max. 10% of sensing distance							
标准检测物 Standard sensing target		8 × 8 × 1mm (铁 Iron)		12 × 12 × 1mm (铁 Iron)		18 × 18 × 1mm (铁 Iron)	25 × 25 × 1mm (铁 Iron)	30 × 30 × 1mm (铁 Iron)	45 × 45 × 1mm (铁 Iron)
设定距离 Setting distance		0~0.8mm	0~1.4mm	0~1.4mm	0~2.8mm	0~3.5mm	0~5.6mm	0~7mm	0~10.5mm
电源 (使用电压范围) Power supply (Operating voltage)		12-24VDC (10-30VDC)							
漏电流 Leakage current		0.6mA 以下 Max.0.6mA							
应答频率 (*1) Response frequency (*1)		1000Hz	1000Hz	1000Hz	500Hz	350Hz	350Hz	200Hz	
残留电压 Residual voltage		3.5V 以下 Max. 3.5V							
温度的影响 Affection by Temp.		在 -25~+70℃ 温度范围内 +20℃ 时的检测距离的 ± 10% 以内 Max. ± 10% for sensing distance at ambient temperature 20℃							
控制输出 Control output		200mA 以下 Max. 200mA							
绝缘阻抗 Insulation resistance		50MΩ 以上 (500VDC 为基准) Min. 50MΩ (at 500VDC megger)							
耐电压 Dielectric strength		1500VAC 50/60Hz1 分钟 1500VAC 50/60Hz for 1minute							
耐振动 Vibration		10~55Hz(周期 1 分钟) 振幅 1mm X, Y, Z 各方向 2 小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours							
耐冲击 Shock		500m/s ² (50G) X, Y, Z 各方向 3 次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times							
显示灯 Indicator		动作指示灯 (红色 LED) Operation indicator(red LED)							
使用周围温度 Ambient temperature		-25~+70℃ (未结冰状态 No icing)							
储存温度 Storage temperature		-30~+80℃ (未结冰状态 No icing)							
使用周围湿度 Ambient humidity		35~95%RH (未结露状态 No condensation)							
保护电路 Protection circuit		浪涌保护电路 Surge protection circuit							
材质 Material		外壳 / 螺母: 镀镍黄铜, 垫片: 镍镀铁, 检测面: PBT, 一般线缆 (灰色): 聚氯乙烯 (PVC), 耐油性线缆 (黑色): 聚氯乙烯 (耐油强化型 PVC) Case/Nut: Nickel plated Brass, Washer: Nickel plated Iron, Sensing surface: PBT, Standard cable(Gray): Polyvinyl chloride(PVC), Oil resistant cable(Black): Oil resistant Polyvinyl chloride(PVC)							
连接线缆 Cable	高端型 High-end type	φ 2.8, 2P, 2m (AWG22, 芯线直径 :0.1mm, 芯线数 :22, 绝缘皮外径 : φ 1.25mm) (AWG22, Core diameter: 0.1mm, Number of cores: 22, Insulator diameter: φ 1.25)	φ 3.8, 2P, 2m (AWG22, 芯线直径 :0.1mm, 芯线数 :25, 绝缘皮外径 : φ 1.25mm) (AWG22, Core diameter: 0.1mm, Number of cores: 25, Insulator diameter: φ 1.25)	φ 4.8, 2P, 2m (AWG22, 芯线直径 :0.1mm, 芯线数 :30, 绝缘皮外径 : φ 1.25mm) (AWG22, Core diameter: 0.1mm, Number of cores: 30, Insulator diameter: φ 1.25)					
	标准型 Standard type	φ 2.8, 2P, 1.5m (AWG22, 芯线直径 :0.1mm, 芯线数 :22, 绝缘皮外径 : φ 1.25mm) (AWG22, Core diameter: 0.1mm, Number of cores: 22, Insulator diameter: φ 1.25)	φ 3.8, 2P, 1.5m (AWG22, 芯线直径 :0.1mm, 芯线数 :25, 绝缘皮外径 : φ 1.25mm) (AWG22, Core diameter: 0.1mm, Number of cores: 25, Insulator diameter: φ 1.25)	φ 4.8, 2P, 1.5m (AWG22, 芯线直径 :0.1mm, 芯线数 :30, 绝缘皮外径 : φ 1.25mm) (AWG22, Core diameter: 0.1mm, Number of cores: 30, Insulator diameter: φ 1.25)					
防护等级 Protection		IP67							

(*1) 开关动作的应答频率为平均值。测定条件使用标准检测物, 检测物的间距为标准检测物的 2 倍, 设定距离为检测距离的 1/2。

(*1): The response frequency is the average value. The standard sensing target is used and the width is set as 2 times of the standard sensing target, 1/2 of the sensing distance for the distance.

规格 Specifications

交流 2 线式 AC 2-wire type

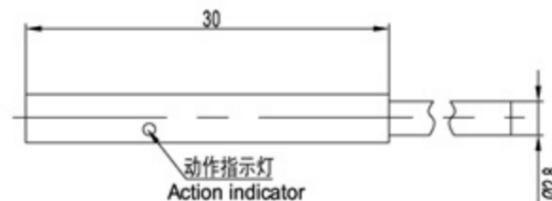
型号名 Model	高端型 High-end type	/	PCJY12-04KA PCJY12-04KB	PCJY18-05KA PCJY18-05KB	PCJY18-08KA PCJY18-08KB	PCJY30-10KA PCJY30-10KB	PCJY30-15KA PCJY30-15KB
	标准型 Standard type	PCJY12E-02KA PCJY12E-02KB	PCJY12E-04KA PCJY12E-04KB	PCJY18E-05KA PCJY18E-05KB	PCJY18E-08KA PCJY18E-08KB	PCJY30E-10KA PCJY30E-10KB	PCJY30E-15KA PCJY30E-15KB
检测距离 Sensing distance		2mm	4mm	5mm	8mm	10mm	15mm
应差距离 Hysteresis	检测距离的 10% 以下 Max. 10% of sensing distance						
标准检测物 Standard sensing target	12 × 12 × 1mm (铁 Iron)		18 × 18 × 1mm (铁 Iron)	25 × 25 × 1mm (铁 Iron)	30 × 30 × 1mm (铁 Iron)	45 × 45 × 1mm (铁 Iron)	
设定距离 Setting distance		0~1.4mm	0~2.8mm	0~3.5mm	0~5.6mm	0~7mm	0~10.5mm
电源 (使用电压范围) Power supply (Operating voltage)	24-250VAC(高端型)						
	90-250VAC (标准型)						
漏电流 Leakage current	10mA 以下 Max. 10mA						
应答频率 (※1) Response frequency (※1)	20Hz						
残留电压 Residual voltage	10V 以下 Max. 10V						
温度的影响 Affection by Temp.	在 -25~+70℃ 温度范围内 +20℃ 时的检测距离的 ± 10% 以内 Max. ± 10% for sensing distance at ambient temperature 20℃						
控制输出 Control output	200mA 以下 Max. 200mA						
绝缘阻抗 Insulation resistance	50MΩ 以上 (500VDC 为基准) Min. 50MΩ (at 500VDC megger)						
耐电压 Dielectric strength	1500VAC 50/60Hz 1 分钟 1500VAC 50/60Hz for 1minute						
耐振动 Vibration	10~55Hz(周期 1 分钟) 振幅 1mm X, Y, Z 各方向 2 小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours						
耐冲击 Shock	500m/s ² (50G) X, Y, Z 各方向 3 次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times						
显示灯 Indicator	动作指示灯 (红色 LED) Operation indicator(red LED)						
使用周围温度 Ambient temperature	-25~+70℃ (未结冰状态 No icing)						
储存温度 Storage temperature	-30~+80℃ (未结冰状态 No icing)						
使用周围湿度 Ambient humidity	35~95%RH (未结露状态 No condensation)						
保护电路 Protection circuit	浪涌保护 Surge protection current						
材质 Material	外壳 / 螺母: 镀镍黄铜, 垫片: 镍镀铁, 检测面: PBT, 一般线缆 (灰色): 聚氯乙烯 (PVC), 耐油性线缆 (黑色): 聚氯乙烯 (耐油强化型 PVC) Case/Nut: Nickel plated Brass, Washer: Nickel plated Iron, Sensing surface: PBT, Standard cable(Gray): Polyvinyl chloride(PVC), Oil resistant cable(Black): Oil resistant Polyvinyl chloride(PVC)						
连接线 Cable	高端型 High-end type	φ 3.8, 2P, 2m		φ 4.8, 2P, 2m			
		(AWG22, 芯线直径 :0.1mm, 芯线数 :25, 绝缘皮外径 : φ 1.25mm) (AWG22, Core diameter: 0.1mm, Number of cores: 25, Insulator diameter: φ 1.25)		(AWG22, 芯线直径 :0.1mm, 芯线数 :30, 绝缘皮外径 : φ 1.25mm) (AWG22, Core diameter: 0.1mm, Number of cores: 30, Insulator diameter: φ 1.25)			
	标准型 Standard type	φ 3.8, 2P, 1.5m		φ 4.8, 2P, 1.5m			
		(AWG22, 芯线直径 :0.1mm, 芯线数 :25, 绝缘皮外径 : φ 1.25mm) (AWG22, Core diameter: 0.1mm, Number of cores: 25, Insulator diameter: φ 1.25)		(AWG22, 芯线直径 :0.1mm, 芯线数 :30, 绝缘皮外径 : φ 1.25mm) (AWG22, Core diameter: 0.1mm, Number of cores: 30, Insulator diameter: φ 1.25)			
防护等级 Protection	IP67						

(※1) 开关动作的应答频率为平均值。测定条件使用标准检测物, 检测物的间距为标准检测物的 2 倍, 设定距离为检测距离的 1/2。

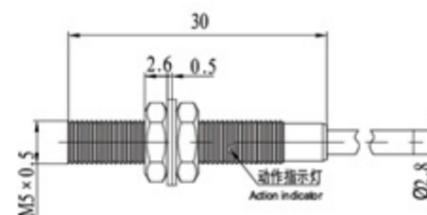
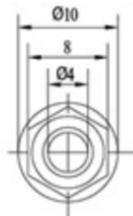
(※1): The response frequency is the average value. The standard sensing target is used and the width is set as 2 times of the standard sensing target, 1/2 of the sensing distance for the distance.

外观和尺寸 Appearance and Dimension

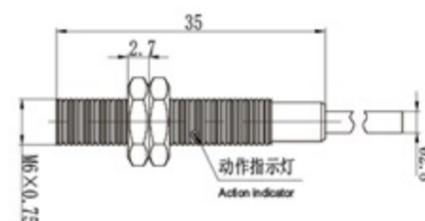
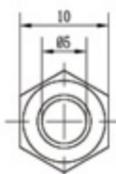
PCJY04-01



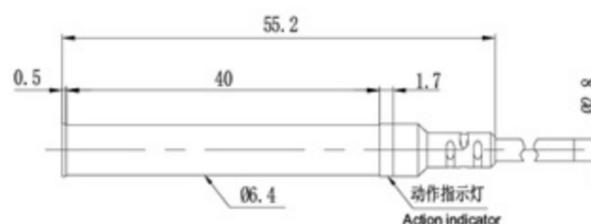
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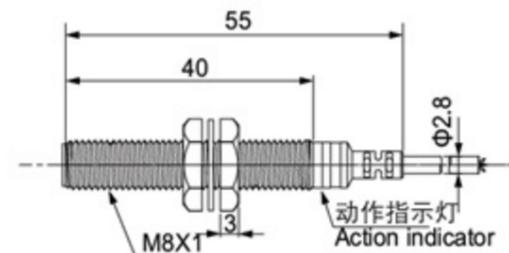
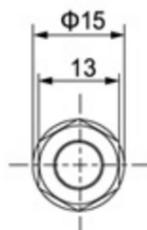
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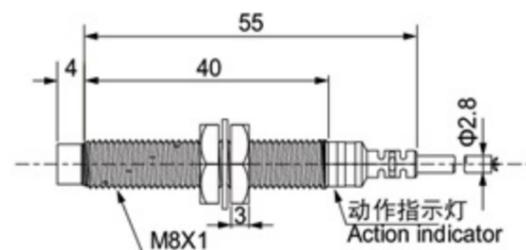
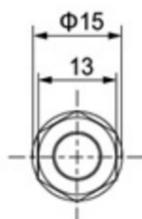
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PCJY08-01

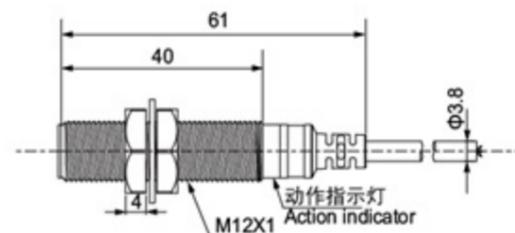
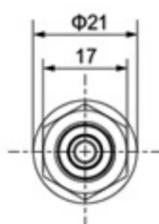


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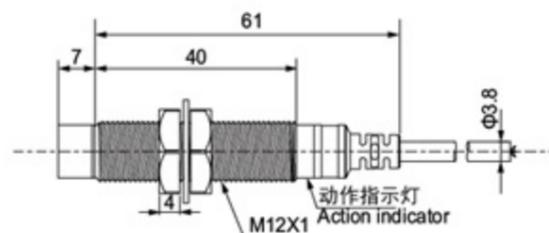


外观和尺寸 Appearance and Dimension

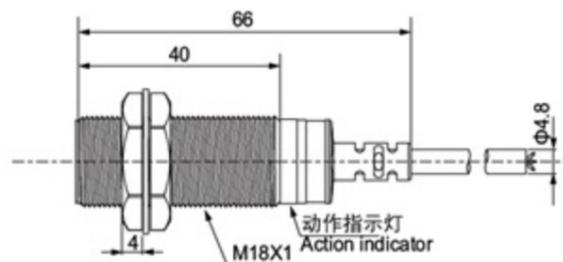
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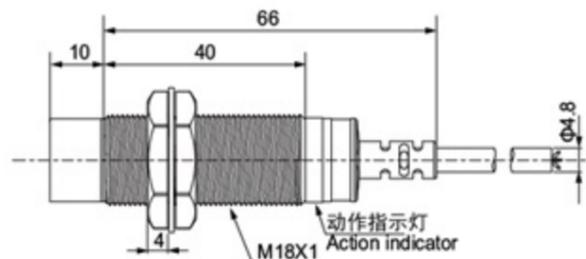
PCJY12-04



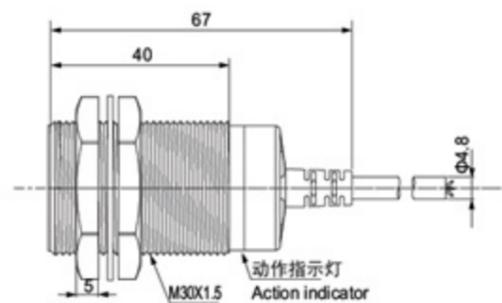
PCJY18-05



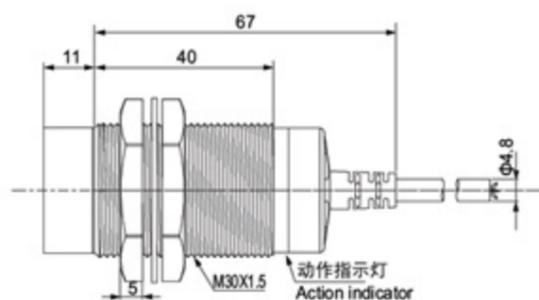
PCJY18-08



PCJY30-10

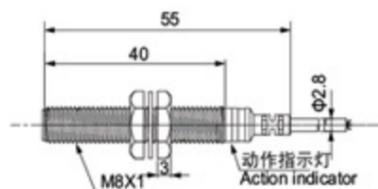
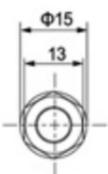


PCJY30-15

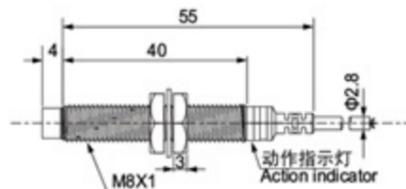
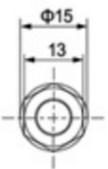


外观和尺寸 Appearance and Dimension

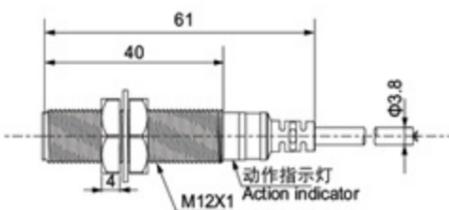
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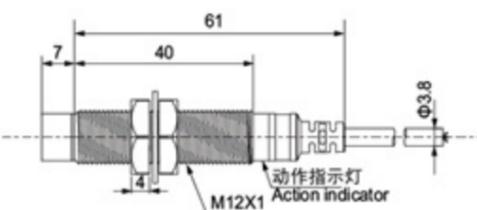
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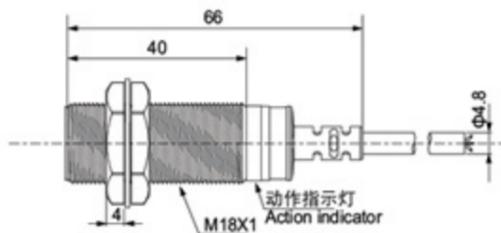
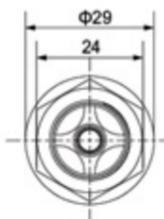
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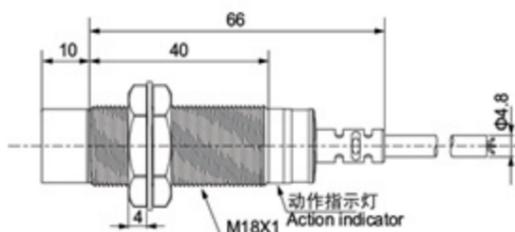
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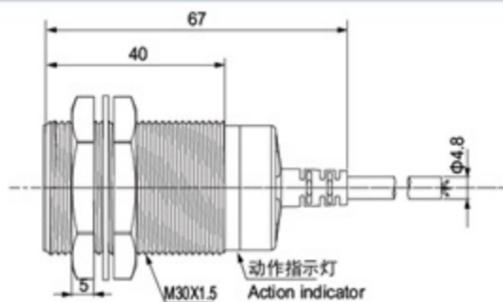
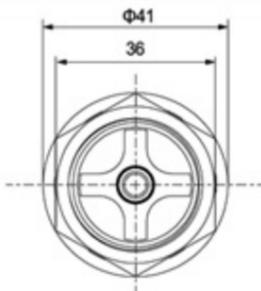
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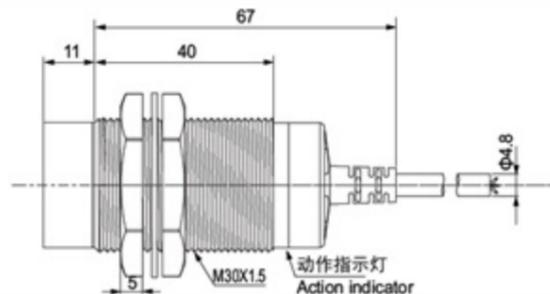
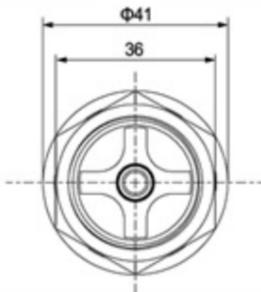
PCJY18E-08



PCJY30E-10

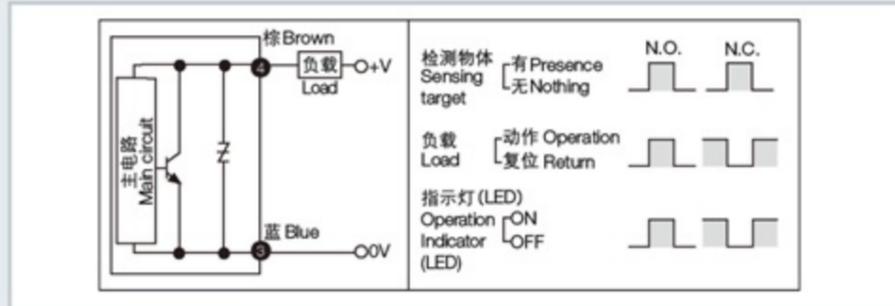


PCJY30E-15

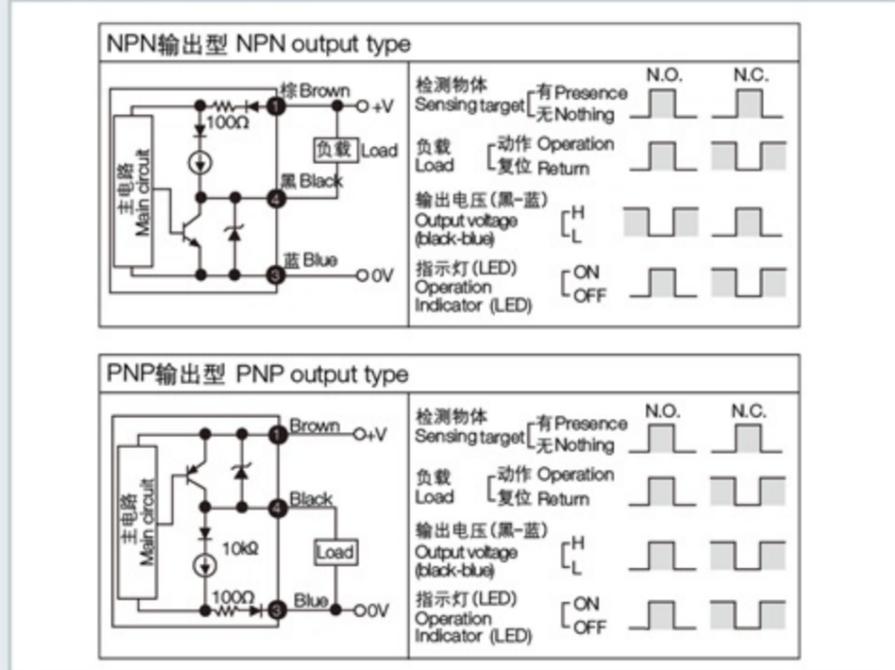


输出电路 Control Output Diagram

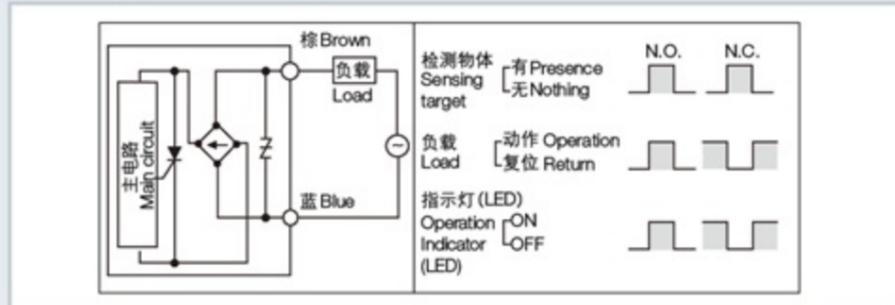
直流 2 线式 DC 2-wire type



直流 3 线式 DC 3-wire type



交流 2 线式 AC 2-wire type

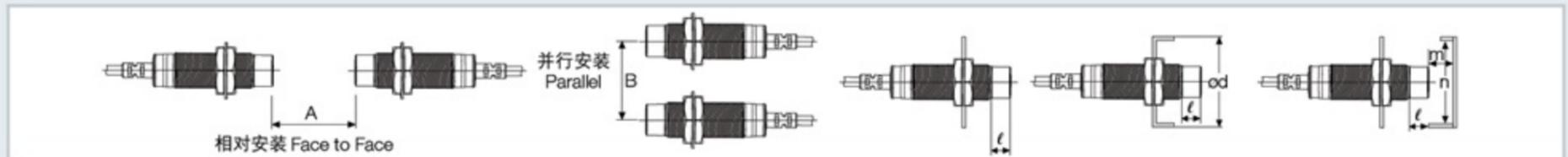


正确使用 Proper Usage

相互干扰 Mutual-interference

当把两个以上的接近开关一起安装使用时，可能会发生相互干扰引起的误动作，在安装时请务必满足下表中所规定的尺寸要求进行安装。

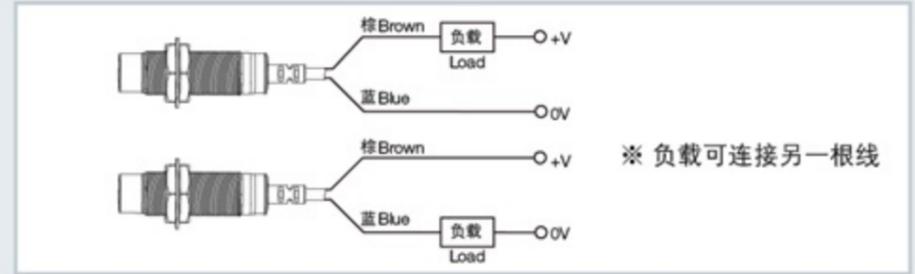
When several proximity sensors are mounted close to one another a malfunction of the sensor may be caused due to mutual interference. Therefore, be sure to provide a minimum distance between the two sensors as below chart indicates.



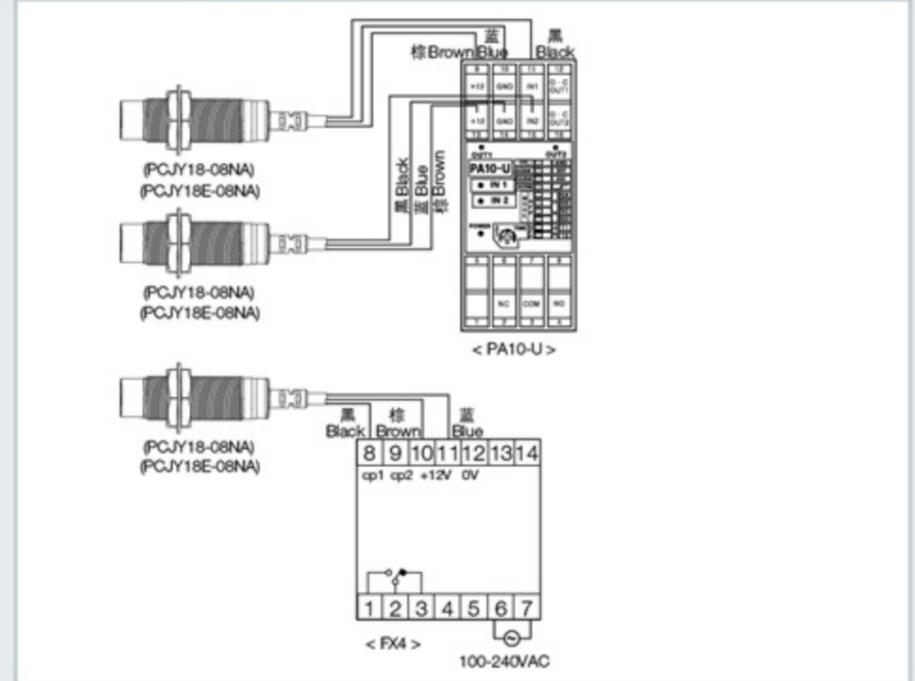
型号名 Model	PCJY08-01	PCJY08-02	PCJY12-02	PCJY12-04	PCJY18-05	PCJY18-08	PCJY30-10	PCJY30-15
项目 Item	PCJY08E-01	PCJY08E-02	PCJY12E-02	PCJY12E-04	PCJY18E-05	PCJY18E-08	PCJY30E-10	PCJY30E-15
A	9	12	12	24	30	48	60	90
B	16	24	24	36	36	54	60	90
l	0	8	0	11	0	14	0	15
φ d	8	24	12	36	18	54	30	90
m	4.5	6	6	12	15	24	30	45
n	12	24	18	36	27	54	45	90

连接 Connections

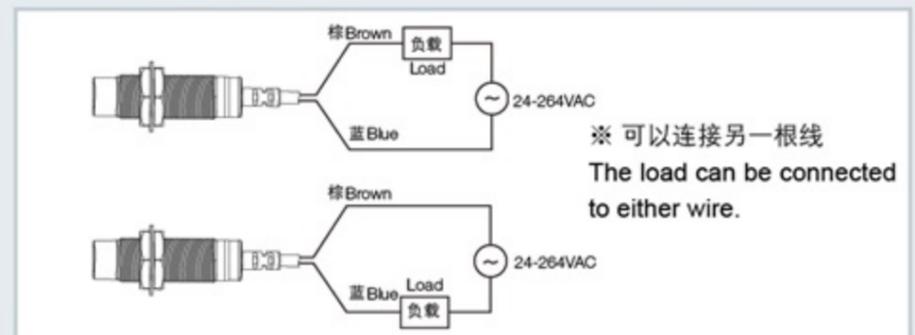
直流 2 线式 DC 2-wire type



直流 3 线式 DC 3-wire type



交流 2 线式 AC 2-wire type



周围金属的影响 Influence by surrounding metals

当接近传感器周围有金属存在时，为防止复位不正常等误差发生，安装时请满足下表中所规定的尺寸要求进行安装。

When sensors are mounted on metallic panel, you must prevent the sensors from being affected by any metallic object except target. Therefore, be sure to provide a minimum distance as below chart indicates.



特点 Features

- 橙色标识代表标准型产品
- 浅绿色标识代表高端型产品
- Orange mark for standard type
- Light green mark for high-end type

- 采用专用 IC 提高抗干扰能力
- 内置浪涌保护, 电源反接保护和过流保护电路
- 寿命长, 高可靠性, 操作简单, 经济实惠
- 红色 LED 状态指示灯, 易于识别运行状态
- IP65 防护等级 (IEC 规格)
- 可以代替微动开关或限位开关广泛使用

- Exclusively designed IC for improving anti-jamming capability
- Inside surge protection, reverse polarity protection, overcurrent protection
- Long use-life cycle and high reliability, easy install, economic price
- Red LED status indication, easy to confirm work situation
- Protection structure IP65(IEC standard)
- Replaceable for limit switches

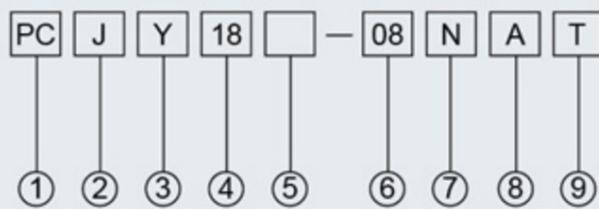


■ 橙色标准型
Orange



■ 浅绿色高端型
Light green

型号说明 Model Number Structure



项目 Item	代号 Code	说明 Description
① 公司代号 Company code	PC	公司代号 Company code
② 产品名称 Product name	J	电感式接近开关 Inductive proximity sensor
③ 外壳形状 Shape of shell	Y	圆柱形 Cylinder-shaped
④ 尺寸代码 Dimension code	18	18=M18
⑤ 产品类型 Product type	无 Without	无 Without = 高端型 High-end type (浅绿色头部 Light green head)
	E	E = 标准型 Standard type (橙色头部 Orange head)
⑥ 检测距离 Detection distance	08	08=8mm
⑦ 输出方式 Output mode	K	AC 二线 AC 2wires
	L	DC 二线 DC 2wires
	P	PNP 三线 PNP 3wires
	N	NPN 三线 NPN 3wires
⑧ 输出状态 Output state	A	常开 NO
	B	常闭 NC
	C	常开 + 常闭 NO+NC
⑨ 连接形式 Connection	无 Without	引线式 Without: Lead wire
	T	接插式 Plug-in
	R	配线引出接插式 Wiring leads Plug-in

PCJY-T 圆柱形接插型接近开关

Proximity Sensor Cylindrical Connector Type

规格 Specifications

直流 3 线式 DC 3-wire type

型号名 Model	高端型 High-end type	PCJY12-02NAT PCJY12-02NBT PCJY12-02NCT PCJY12-02PAT PCJY12-02PBT PCJY12-02PCT	PCJY12-04NAT PCJY12-04NBT PCJY12-04NCT PCJY12-04PAT PCJY12-04PBT PCJY12-04PCT	PCJY18-05NAT PCJY18-05NBT PCJY18-05NCT PCJY18-05PAT PCJY18-05PBT PCJY18-05PCT	PCJY18-08NAT PCJY18-08NBT PCJY18-08NCT PCJY18-08PAT PCJY18-08PBT PCJY18-08PCT	PCJY30-10NAT PCJY30-10NBT PCJY30-10NCT PCJY30-10PAT PCJY30-10PBT PCJY30-10PCT	PCJY30-15NAT PCJY30-15NBT PCJY30-15NCT PCJY30-15PAT PCJY30-15PBT PCJY30-15PCT
	标准型 Standard type	PCJY12E-02NAT PCJY12E-02NBT PCJY12E-02NCT PCJY12E-02PAT PCJY12E-02PBT PCJY12E-02PCT	PCJY12E-04NAT PCJY12E-04NBT PCJY12E-04NCT PCJY12E-04PAT PCJY12E-04PBT PCJY12E-04PCT	PCJY18E-05NAT PCJY18E-05NBT PCJY18E-05NCT PCJY18E-05PAT PCJY18E-05PBT PCJY18E-05PCT	PCJY18E-08NAT PCJY18E-08NBT PCJY18E-08NCT PCJY18E-08PAT PCJY18E-08PBT PCJY18E-08PCT	PCJY30E-10NAT PCJY30E-10NBT PCJY30E-10NCT PCJY30E-10PAT PCJY30E-10PBT PCJY30E-10PCT	PCJY30E-15NAT PCJY30E-15NBT PCJY30E-15NCT PCJY30E-15PAT PCJY30E-15PBT PCJY30E-15PCT
检测距离 Sensing distance	2mm	4mm	5mm	8mm	10mm	15mm	
应差距离 Hysteresis	检测距离的 10% 以下 Max. 10% of sensing distance						
标准检测物 Standard sensing target	12 × 12 × 1mm (铁 Iron)		18 × 18 × 1mm (铁 Iron)	25 × 25 × 1mm (铁 Iron)	30 × 30 × 1mm (铁 Iron)	45 × 45 × 1mm (铁 Iron)	
设定距离 Setting distance	0~1.4mm	0~2.8mm	0~3.5mm	0~5.6mm	0~7mm	0~10.5mm	
电源 (使用电压范围) Power supply (Operating voltage)	12-24VDC (10-30VDC)						
漏电流 Leakage current	10mA 以下 Max.10mA						
应答频率 (*1) Response frequency (*1)	1000Hz	500Hz	500Hz	350Hz	350Hz(高端) 400Hz(标准)	200Hz	
残留电压 Residual voltage	1.0V 以下 Max. 1.0V						
温度的影响 Affection by Temp.	在 -25~+70℃ 温度范围内 +20℃ 时的检测距离的 ± 10% 以内 Max. ± 10% for sensing distance at ambient temperature 20℃						
控制输出 Control output	200mA 以下 Max. 200mA						
绝缘阻抗 Insulation resistance	50MΩ 以上 (500VDC 为基准) Min. 50MΩ (at 500VDC megger)						
耐电压 Dielectric strength	1500VAC 50/60Hz 1 分钟 1500VAC 50/60Hz for 1minute						
耐振动 Vibration	10~55Hz(周期 1 分钟) 振幅 1mm X, Y, Z 各方向 2 小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours						
耐冲击 Shock	500m/s ² (50G) X, Y, Z 各方向 3 次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times						
显示灯 Indicator	动作指示灯 (红色 LED) Operation indicator(red LED)						
使用周围温度 Ambient temperature	-25~+70℃ (未结冰状态 No icing)						
储存温度 Storage temperature	-30~+80℃ (未结冰状态 No icing)						
使用周围湿度 Ambient humidity	35~95%RH (未结露状态 No condensation)						
保护电路 Protection circuit	内置浪涌保护, 电源反接保护电路, 过流保护电路 Surge protection circuit, Reverse polarity protection circuit, Overcurrent protection circuit						
材质 Material	外壳 / 螺母: 镀镍黄铜, 垫片: 镍镀铁, 检测面: PBT Case/Nut: Nickel plated Brass, Washer: Nickel plated Iron, Sensing surface: PBT						
防护等级 Protection	IP65						

(*1) 开关动作的应答频率为平均值。测定条件使用标准检测物, 检测物的间距为标准检测物的 2 倍, 设定距离为检测距离的 1/2。

(*1): The response frequency is the average value. The standard sensing target is used and the width is set as 2 times of the standard sensing target, 1/2 of the sensing distance for the distance.

规格 Specifications

直流 2 线式 DC 2-wire type

型号名 Model	高端型 High-end type	PCJY12-02LAT PCJY12-02LBT	PCJY12-04LAT PCJY12-04LBT	PCJY18-05LAT PCJY18-05LBT	PCJY18-08LAT PCJY18-08LBT	PCJY30-10LAT PCJY30-10LBT	PCJY30-15LAT PCJY30-15LBT
	标准型 Standard type	PCJY12E-02LAT	PCJY12E-04LAT	PCJY18E-05LAT	PCJY18E-08LAT	PCJY30E-10LAT	PCJY30E-15LAT
检测距离 Sensing distance	2mm		4mm	5mm	8mm	10mm	15mm
应差距离 Hysteresis	检测距离的 10% 以下 Max. 10% of sensing distance						
标准检测物 Standard sensing target	12 × 12 × 1mm (铁 Iron)		18 × 18 × 1mm (铁 Iron)	25 × 25 × 1mm (铁 Iron)	30 × 30 × 1mm (铁 Iron)	45 × 45 × 1mm (铁 Iron)	
设定距离 Setting distance	0~1.4mm	0~2.8mm	0~3.5mm	0~5.6mm	0~7mm	0~10.5mm	
电源 (使用电压范围) Power supply (Operating voltage)	12-24VDC (10-30VDC)						
漏电流 Leakage current	0.6mA 以下 Max.0.6mA						
应答频率 (*1) Response frequency (*1)	1000Hz	500Hz	500Hz	350Hz	350Hz	200Hz	
残留电压 Residual voltage	3.5V 以下 Max. 3.5V						
温度的影响 Affection by Temp.	在 -25~+70℃ 温度范围内 +20℃ 时的检测距离的 ± 10% 以内 Max. ± 10% for sensing distance at ambient temperature 20℃						
控制输出 Control output	200mA 以下 Max. 200mA						
绝缘阻抗 Insulation resistance	50MΩ 以上 (500VDC 为基准) Min. 50MΩ (at 500VDC megger)						
耐电压 Dielectric strength	1500VAC 50/60Hz 1 分钟 1500VAC 50/60Hz for 1minute						
耐振动 Vibration	10~55Hz(周期 1 分钟) 振幅 1mm X, Y, Z 各方向 2 小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours						
耐冲击 Shock	500m/s ² (50G) X, Y, Z 各方向 3 次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times						
显示灯 Indicator	动作指示灯 (红色 LED) Operation indicator(red LED)						
使用周围温度 Ambient temperature	-25~+70℃ (未结冰状态 No icing)						
储存温度 Storage temperature	-30~+80℃ (未结冰状态 No icing)						
使用周围湿度 Ambient humidity	35~95%RH (未结露状态 No condensation)						
保护电路 Protection circuit	浪涌保护电路 Surge protection circuit						
材质 Material	外壳 / 螺母: 镀镍黄铜, 垫片: 镍镀铁, 检测面: PBT Case/Nut: Nickel plated Brass, Washer: Nickel plated Iron, Sensing surface: PBT						
防护等级 Protection	IP65						

(*1) 开关动作的应答频率为平均值。测定条件使用标准检测物, 检测物的间距为标准检测物的 2 倍, 设定距离为检测距离的 1/2。

* 标准产品和 IEC 标准的功能和规格是一样的。

(*1): The response frequency is the average value. The standard sensing target is used and the width is set as 2 times of the standard sensing target, 1/2 of the sensing distance for the distance.

规格 Specifications

交流 2 线式 AC 2-wire type

型号名 Model	高端型 High-end type	/	PCJY12-04KAT PCJY12-04KBT	PCJY18-05KAT PCJY18-05KBT	PCJY18-08KAT PCJY18-08KBT	PCJY30-10KAT PCJY30-10KBT	PCJY30-15KAT PCJY30-15KBT
	标准型 Standard type	PCJY12E-02KAT PCJY12E-02KBT	PCJY12E-04KAT PCJY12E-04KBT	PCJY18E-05KAT PCJY18E-05KBT	PCJY18E-08KAT PCJY18E-08KBT	PCJY30E-10KAT PCJY30E-10KBT	PCJY30E-15KAT PCJY30E-15KBT
检测距离 Sensing distance	2mm	4mm	5mm	8mm	10mm	15mm	
应差距离 Hysteresis	检测距离的 10% 以下 Max. 10% of sensing distance						
标准检测物 Standard sensing target	12 × 12 × 1mm (铁 Iron)		18 × 18 × 1mm (铁 Iron)	25 × 25 × 1mm (铁 Iron)	30 × 30 × 1mm (铁 Iron)	45 × 45 × 1mm (铁 Iron)	
设定距离 Setting distance	0~1.4mm	0~2.8mm	0~3.5mm	0~5.6mm	0~7mm	0~10.5mm	
电源 (使用电压范围) Power supply (Operating voltage)	90-250VAC						
漏电流 Leakage current	10mA 以下 Max. 10mA						
应答频率 (※1) Response frequency (※1)	20Hz						
残留电压 Residual voltage	10V 以下 Max. 10V						
温度的影响 Affection by Temp.	在 -25~+70℃ 温度范围内 +20℃ 时的检测距离的 ± 10% 以内 Max. ± 10% for sensing distance at ambient temperature 20℃						
控制输出 Control output	200mA 以下 Max. 200mA						
绝缘阻抗 Insulation resistance	50MΩ 以上 (500VDC 为基准) Min. 50MΩ (at 500VDC megger)						
耐电压 Dielectric strength	1500VAC 50/60Hz 1 分钟 1500VAC 50/60Hz for 1minute						
耐振动 Vibration	10~55Hz(周期 1 分钟) 振幅 1mm X, Y, Z 各方向 2 小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours						
耐冲击 Shock	500m/s ² (50G) X, Y, Z 各方向 3 次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times						
显示灯 Indicator	动作指示灯 (红色 LED) Operation indicator(red LED)						
使用周围温度 Ambient temperature	-25~+70℃ (未结冰状态 No icing)						
储存温度 Storage temperature	-30~+80℃ (未结冰状态 No icing)						
使用周围湿度 Ambient humidity	35~95%RH (未结露状态 No condensation)						
保护电路 Protection circuit	浪涌保护电路 Surge protection current						
材质 Material	外壳 / 螺母: 镀镍黄铜, 垫片: 镍镀铁, 检测面: PBT Case/Nut: Nickel plated Brass, Washer: Nickel plated Iron, Sensing surface: PBT						
防护等级 Protection	IP65						

(※1) 开关动作的应答频率为平均值。测定条件使用标准检测物, 检测物的间距为标准检测物的 2 倍, 设定距离为检测距离的 1/2。

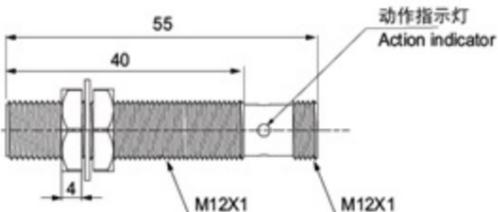
(※1): The response frequency is the average value. The standard sensing target is used and the width is set as 2 times of the standard sensing target, 1/2 of the sensing distance for the distance.

外观和尺寸 Appearance and Dimension

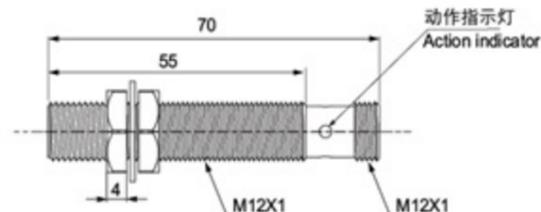
PCJY12-02T



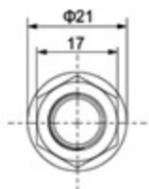
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NA NB PA PB LA LB Following chart



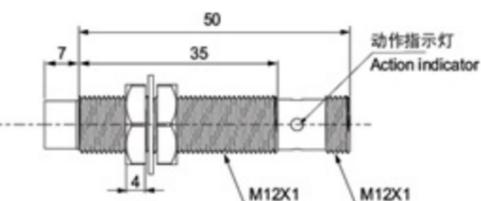
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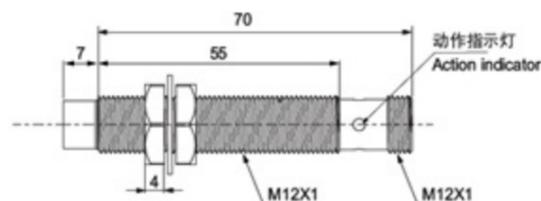
PCJY12-04T



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NA NB PA PB LA LB Following chart



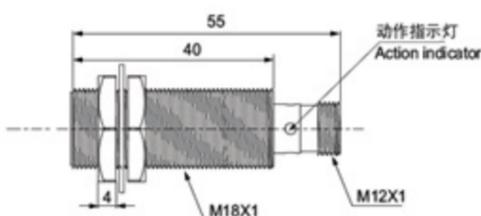
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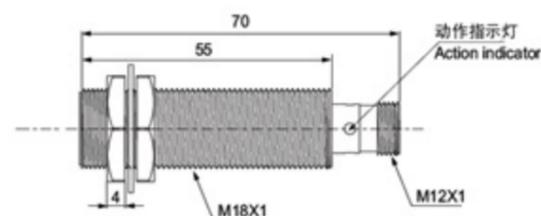
PCJY18-05T



NA NB PA PB LA LB 如下图:
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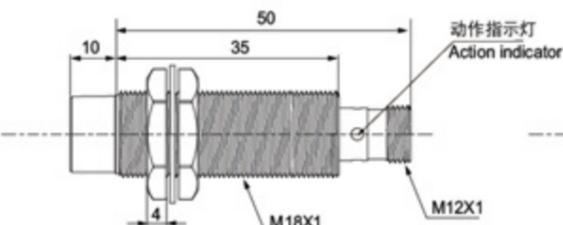
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NC PC KA KB Following chart



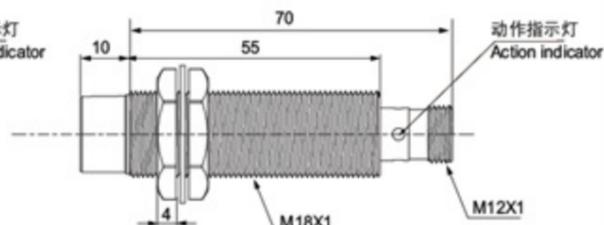
PCJY18-08T



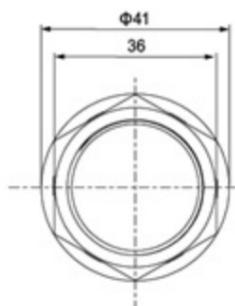
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NA NB PA PB LA LB Following chart



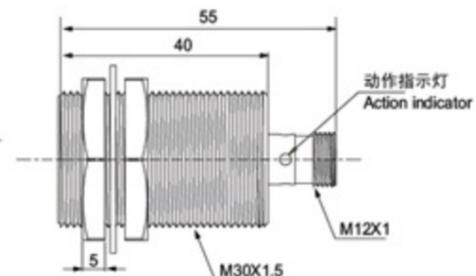
NC PC KA KB 如下图:
NC PC KA KB Following chart



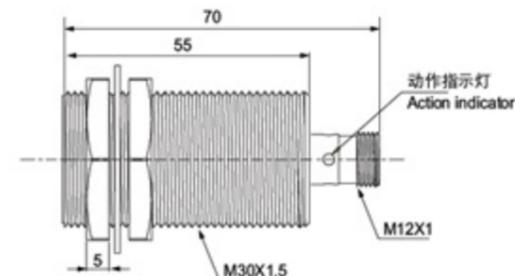
PCJY30-10T



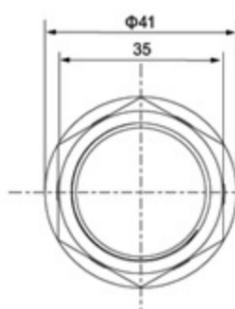
NA NB PA PB LA LB 如下图:
NA NB PA PB LA LB Following chart



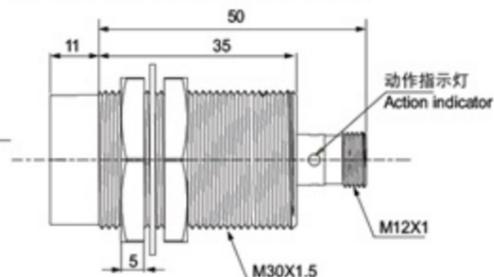
NC PC KA KB 如下图:
NC PC KA KB Following chart



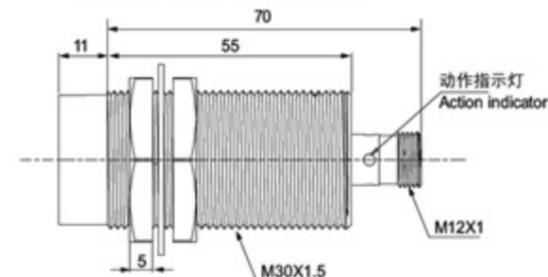
PCJY30-15T



NA NB PA PB LA LB 如下图:
NA NB PA PB LA LB Following chart



NC PC KA KB 如下图:
NC PC KA KB Following chart



PCJY-T 圆柱形接插型接近开关 (标准型)

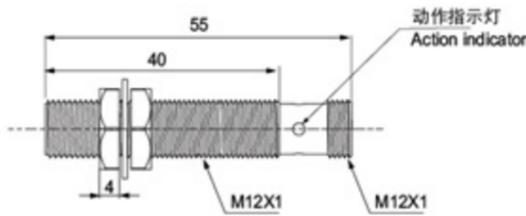
Proximity Sensor Cylindrical Connector Type (Standard type)

外观和尺寸 Appearance and Dimension

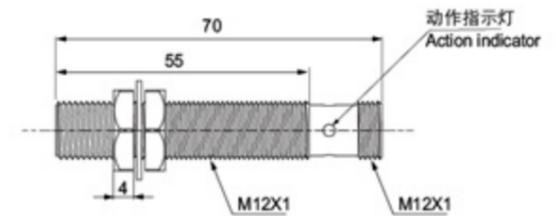
PCJY12E-02T



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NA NB NC PA PB PC LA LB Following chart



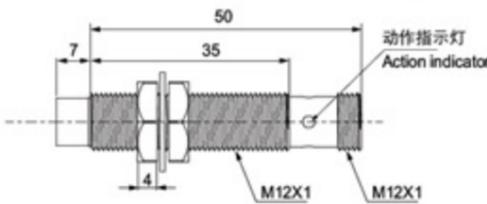
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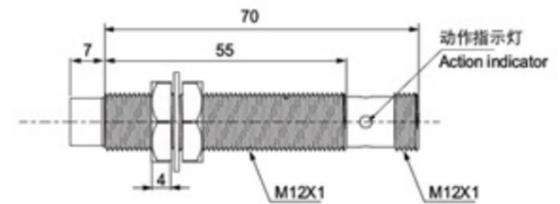
PCJY12E-04T



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NA NB NC PA PB PC LA LB Following chart



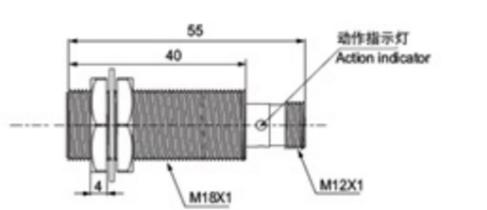
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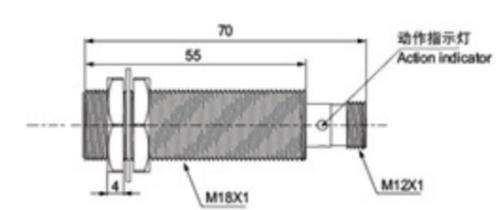
PCJY18E-05T



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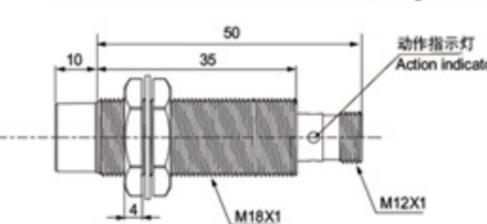
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KA KB Following chart



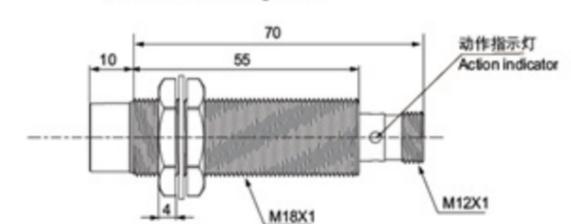
PCJY18E-08T



NA NB NC PA PB PC LA LB 如下图:
NA NB NC PA PB PC LA LB Following chart



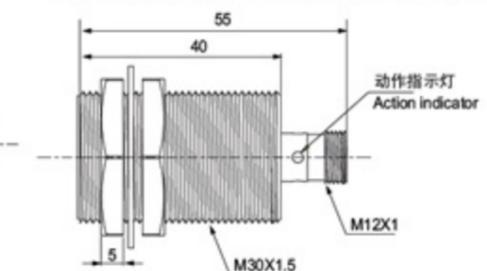
KA KB 如下图:
KA KB Following chart



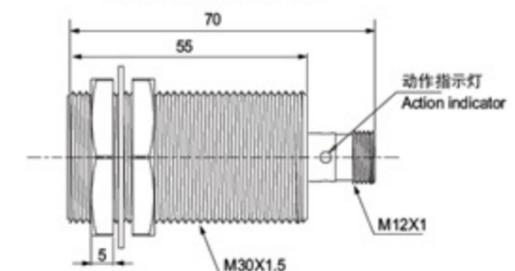
PCJY30E-10T



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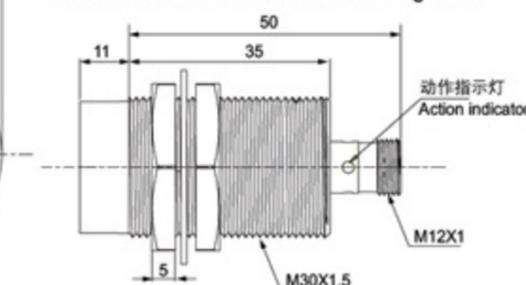
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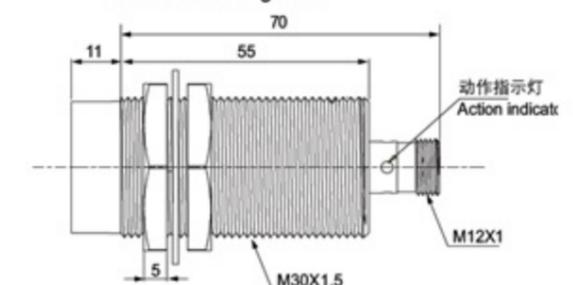
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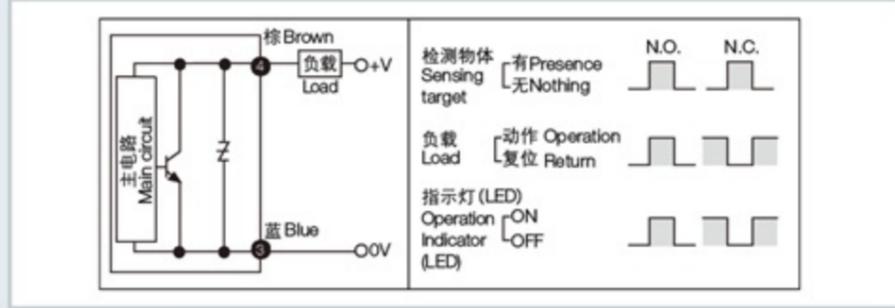


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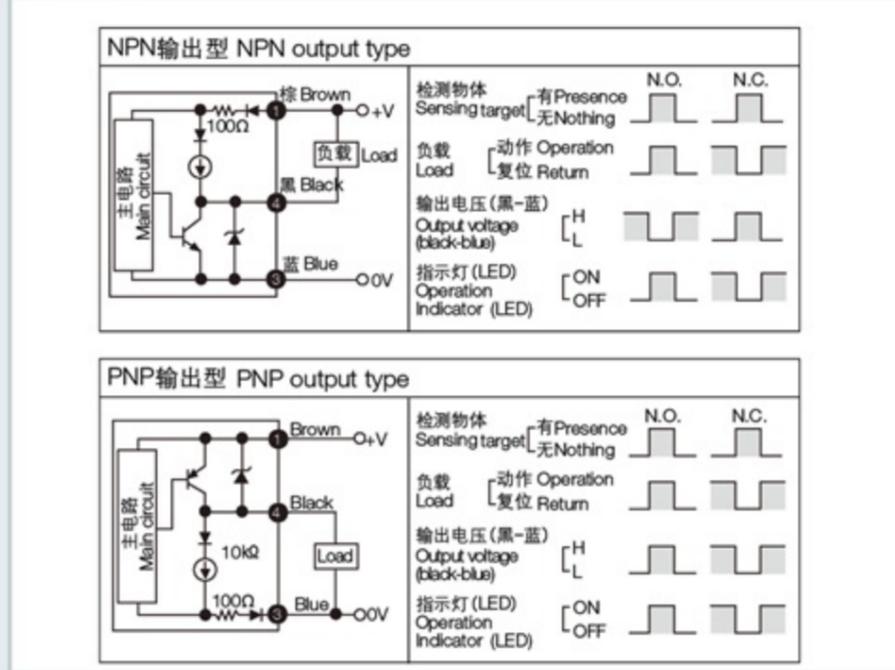


输出电路 Control Output Diagram

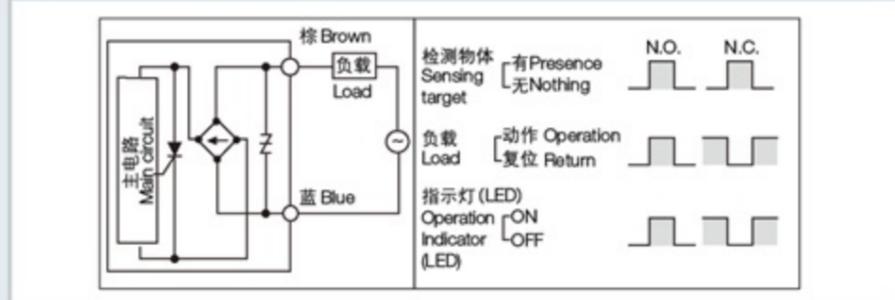
直流 2 线式 DC 2-wire type



直流 3 线式 DC 3-wire type



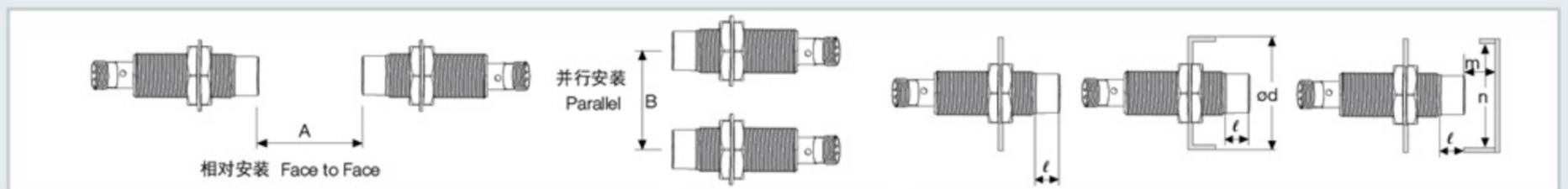
交流 2 线式 AC 2-wire type



正确使用 Proper Usage

相互干扰 Mutual-interference

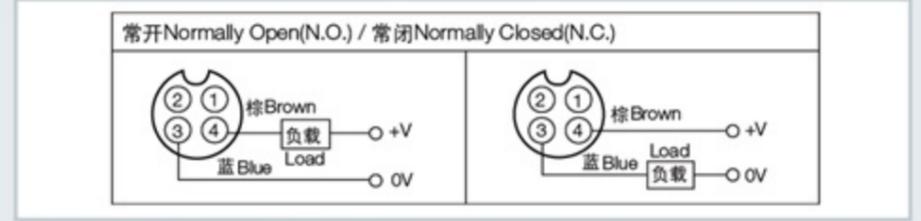
当把两个以上的接近开关一起安装使用时，可能会发生相互干扰引起的误动作，在安装时请务必满足下表中所规定的尺寸要求进行安装。
When several proximity sensors are mounted close to one another a malfunction of the sensor may be caused due to mutual interference. Therefore, be sure to provide a minimum distance between the two sensors as below chart indicates.



型号名 Model	PCJY12-02T	PCJY12-04T	PCJY18-05T	PCJY18-08T	PCJY30-10T	PCJY30-15T
项目 Item	PCJY12E-02T	PCJY12E-04T	PCJY18E-05T	PCJY18E-08T	PCJY30E-10T	PCJY30E-15T
A	12	24	30	48	60	90
B	24	36	36	54	60	90
l	0	11	0	14	0	15
φ d	12	36	18	54	30	90
m	6	12	15	24	30	45
n	18	36	27	54	45	90

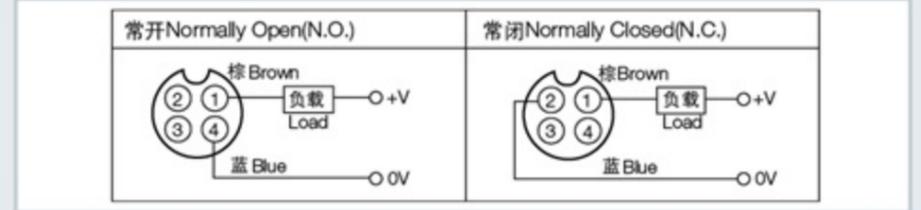
连接器接线图 Wiring Diagram

直流 2 线式 (标准型) DC 2-wire type (Standard type)



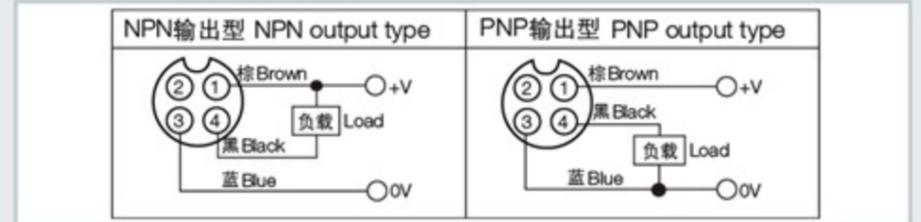
※ Pin ①, ②为 N.C.(Not Connected) 端子。
※ 当使用直流 3 线连接电缆时，黑线作为 (24VDC) 及蓝线作为 (0V) 使用。
※ Pin ①, ② are not used terminals.
※ When using DC 3-wire type of connector cable, black (12-24VDC) and blue(0V) cables can be used.

直流 2 线式 (IEC 规格) DC 2-wire type (IEC standard type)



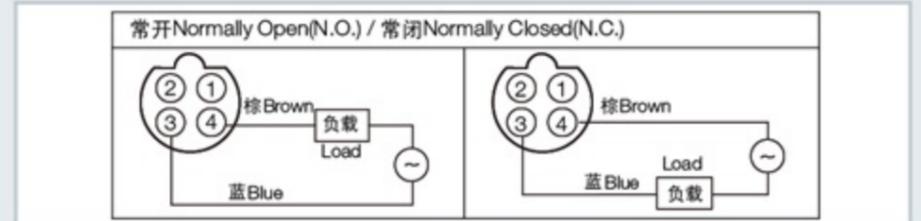
※ N.O.Type 的 ②, ③与 N.C.Type 的 ③, ④为 N.C.(Not Connected) 端子。
※ 请使用 IEC 规格的接插头。
※ ②, ③ of N.O. type and ③, ④ of N.C. type are not used terminals.
※ Please use the IEC specifications of the plug.

直流 3 线式 DC 3-wire type



※ 结合接插头时，请使用 (0.39~0.49N·m 拧紧螺丝)。
※ 在发生震动的地方请用胶带缠住连接线缆后使用。
※ Please fasten the cleat of connector not to shown the thread. (0.39 to 0.49N.m)
※ Please fasten the vibration part with Teflon tape.

交流 2 线式 AC 2-wire type



※ 交流开闭型时，②与③, ①与④内部是相连接的。
※ In case of AC switching type, ② and ③, ① and ④ are connected to each other inside.

周围金属的影响 Influence by surrounding metals

当接近传感器周围有金属存在时，为防止复位不正常等误差发生，安装时请满足下表中所规定的尺寸要求进行安装。
When sensors are mounted on metallic panel, you must prevent the sensors from being affected by any metallic object except target. Therefore, be sure to provide a minimum distance as below chart indicates.

PCJY-R 圆柱形引线接插型接近开关

Proximity Sensor Cylindrical Cable Connector Type



特点 Features

- 橙色标识代表标准型产品
- 浅绿色标识代表高端型产品
- Orange mark for standard type
- Light green mark for high-end type

- 采用专用 IC 提高抗干扰能力
- 内置浪涌保护, 电源反接保护和过流保护电路
- 寿命长, 高可靠性, 操作简单, 经济实惠
- 红色 LED 状态指示灯, 易于识别运行状态
- IP67 防护等级 (IEC 规格)
- 可以代替微动开关或限位开关广泛使用

- Exclusively designed IC for improving anti-jamming capability
- Inside surge protection, reverse polarity protection, overcurrent protection
- Long use-life cycle and high reliability, easy install, economic price
- Red LED status indication, easy to confirm work situation
- Protection structure IP67(IEC standard)
- Replaceable for limit switches

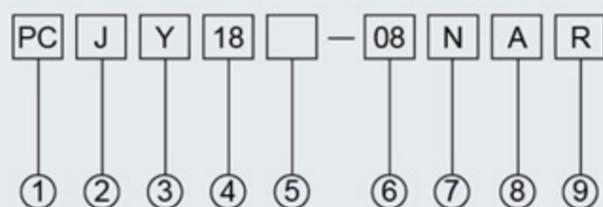


■ 橙色标准型
Orange



■ 浅绿色高端型
Light green

型号说明 Model Number Structure



项目 Item	代号 Code	说明 Description
① 公司代号 Company code	PC	公司代号 Company code
② 产品名称 Product name	J	电感式接近开关 Inductive proximity sensor
③ 外壳形状 Shape of shell	Y	圆柱形 Cylinder-shaped
④ 尺寸代码 Dimension code	18	18=M18
⑤ 产品类型 Product type	无 Without	无 Without = 高端型 High-end type (浅绿色头部 Light green head)
	E	E = 标准型 Standard type (橙色头部 Orange head)
⑥ 检测距离 Detection distance	08	08=8mm
⑦ 输出方式 Output mode	K	AC 二线 AC 2wires
	L	DC 二线 DC 2wires
	P	PNP 三线 PNP 3wires
	N	NPN 三线 NPN 3wires
⑧ 输出状态 Output state	A	常开 NO
	B	常闭 NC
	C	常开 + 常闭 NO+NC
⑨ 连接形式 Connection	无 Without	引线式 Without: Lead wire
	T	接插式 Plug-in
	R	配线引出接插式 Wiring leads Plug-in

规格 Specifications

直流 3 线式 DC 3-wire type

型号名 Model	高端型 High-end type	PCJY12-02NAR PCJY12-02NBR PCJY12-02NCR PCJY12-02PAR PCJY12-02PBR PCJY12-02PCR	PCJY12-04NAR PCJY12-04NBR PCJY12-04NCR PCJY12-04PAR PCJY12-04PBR PCJY12-04PCR	PCJY18-05NAR PCJY18-05NBR PCJY18-05NCR PCJY18-05PAR PCJY18-05PBR PCJY18-05PCR	PCJY18-08NAR PCJY18-08NBR PCJY18-08NCR PCJY18-08PAR PCJY18-08PBR PCJY18-08PCR	PCJY30-10NAR PCJY30-10NBR PCJY30-10NCR PCJY30-10PAR PCJY30-10PBR PCJY30-10PCR	PCJY30-15NAR PCJY30-15NBR PCJY30-15NCR PCJY30-15PAR PCJY30-15PBR PCJY30-15PCR
	标准型 Standard type	PCJY12E-02NAR PCJY12E-02NBR PCJY12E-02NCR PCJY12E-02PAR PCJY12E-02PBR PCJY12E-02PCR	PCJY12E-04NAR PCJY12E-04NBR PCJY12E-04NCR PCJY12E-04PAR PCJY12E-04PBR PCJY12E-04PCR	PCJY18E-05NAR PCJY18E-05NBR PCJY18E-05NCR PCJY18E-05PAR PCJY18E-05PBR PCJY18E-05PCR	PCJY18E-08NAR PCJY18E-08NBR PCJY18E-08NCR PCJY18E-08PAR PCJY18E-08PBR PCJY18E-08PCR	PCJY30E-10NAR PCJY30E-10NBR PCJY30E-10NCR PCJY30E-10PAR PCJY30E-10PBR PCJY30E-10PCR	PCJY30E-15NAR PCJY30E-15NBR PCJY30E-15NCR PCJY30E-15PAR PCJY30E-15PBR PCJY30E-15PCR
检测距离 Sensing distance	2mm		4mm	5mm	8mm	10mm	15mm
应差距离 Hysteresis	检测距离的 10% 以下 Max. 10% of sensing distance						
标准检测物 Standard sensing target	12 × 12 × 1mm (铁 Iron)		18 × 18 × 1mm (铁 Iron)	25 × 25 × 1mm (铁 Iron)	30 × 30 × 1mm (铁 Iron)	45 × 45 × 1mm (铁 Iron)	
设定距离 Setting distance	0~1.4mm	0~2.8mm	0~3.5mm	0~5.6mm	0~7mm	0~10.5mm	
电源 (使用电压范围) Power supply (Operating voltage)	12-24VDC (10-30VDC)						
漏电流 Leakage current	10mA 以下 Max.10mA						
应答频率 (*1) Response frequency (*1)	1000Hz	500Hz	500Hz	350Hz	350Hz	200Hz	
残留电压 Residual voltage	1.0V 以下 Max. 1.0V						
温度的影响 Affection by Temp.	在 -25~+70℃ 温度范围内 +20℃ 时的检测距离的 ± 10% 以内 Max. ± 10% for sensing distance at ambient temperature 20℃						
控制输出 Control output	200mA 以下 Max. 200mA						
绝缘阻抗 Insulation resistance	50MΩ 以上 (500VDC 为基准) Min. 50MΩ (at 500VDC megger)						
耐电压 Dielectric strength	1500VAC 50/60Hz 1 分钟 1500VAC 50/60Hz for 1minute						
耐振动 Vibration	10~55Hz(周期 1 分钟) 振幅 1mm X, Y, Z 各方向 2 小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours						
耐冲击 Shock	500m/s ² (50G) X, Y, Z 各方向 3 次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times						
显示灯 Indicator	动作指示灯 (红色 LED) Operation indicator(red LED)						
使用周围温度 Ambient temperature	-25~+70℃ (未结冰状态 No icing)						
储存温度 Storage temperature	-30~+80℃ (未结冰状态 No icing)						
使用周围湿度 Ambient humidity	35~95%RH (未结露状态 No condensation)						
保护电路 Protection circuit	内置浪涌保护, 电源反接保护电路, 过流保护电路 Surge protection circuit, Reverse polarity protection circuit, Overcurrent protection circuit						
材质 Material	外壳 / 螺母: 镀镍黄铜, 垫片: 镍镀铁, 检测面: PBT, 一般线缆 (灰色): 聚氯乙烯 (PVC), 耐油性线缆 (黑色): 聚氯乙烯 (耐油强化型 PVC) Case/Nut: Nickel plated Brass, Washer: Nickel plated Iron, Sensing surface: PBT, Standard cable(Gray): Polyvinyl chloride(PVC), Oil resistant cable(Black): Oil resistant Polyvinyl chloride(PVC)						
连接线缆 Cable	φ 3.8, 3P,4P 300mm, M12 连接器 connector			φ 4.8, 3P,4P 300mm, M12 连接器 connector			
防护等级 Protection	IP67						

(※1) 开关动作的应答频率为平均值。测定条件使用标准检测物, 检测物的间距为标准检测物的 2 倍, 设定距离为检测距离的 1/2。

(※1): The response frequency is the average value. The standard sensing target is used and the width is set as 2 times of the standard sensing target, 1/2 of the sensing distance for the distance.

规格 Specifications

直流 2 线式 DC 2-wire type

型号名 Model	PCJY12-02LAR PCJY12-02LBR	PCJY12-04LAR PCJY12-04LBR	PCJY18-05LAR PCJY18-05LBR	PCJY18-08LAR PCJY18-08LBR	PCJY30-10LAR PCJY30-10LBR	PCJY30-15LAR PCJY30-15LBR
检测距离 Sensing distance	2mm	4mm	5mm	8mm	10mm	15mm
应差距离 Hysteresis	检测距离的 10% 以下 Max. 10% of sensing distance					
标准检测物 Standard sensing target	12 × 12 × 1mm (铁 Iron)		18 × 18 × 1mm (铁 Iron)	25 × 25 × 1mm (铁 Iron)	30 × 30 × 1mm (铁 Iron)	45 × 45 × 1mm (铁 Iron)
设定距离 Setting distance	0~1.4mm	0~2.8mm	0~3.5mm	0~5.6mm	0~7mm	0~10.5mm
电源 (使用电压范围) Power supply (Operating voltage)	12-24VDC (10-30VDC)					
漏电流 Leakage current	0.6mA 以下 Max.0.6mA					
应答频率 (※1) Response frequency (※1)	1000Hz	500Hz	500Hz	350Hz	350Hz	200Hz
残留电压 Residual voltage	3.5V 以下 Max. 3.5V					
温度的影响 Affection by Temp.	在 -25~+70℃ 温度范围内 +20℃ 时的检测距离的 ± 10% 以内 Max. ± 10% for sensing distance at ambient temperature 20℃					
控制输出 Control output	200mA 以下 Max. 200mA					
绝缘阻抗 Insulation resistance	50MΩ 以上 (500VDC 为基准) Min. 50MΩ (at 500VDC megger)					
耐电压 Dielectric strength	1500VAC 50/60Hz 1 分钟 1500VAC 50/60Hz for 1minute					
耐振动 Vibration	10~55Hz(周期 1 分钟) 振幅 1mm X, Y, Z 各方向 2 小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours					
耐冲击 Shock	500m/s ² (50G) X, Y, Z 各方向 3 次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times					
显示灯 Indicator	动作指示灯 (红色 LED) Operation indicator(red LED)					
使用周围温度 Ambient temperature	-25~+70℃ (未结冰状态 No icing)					
储存温度 Storage temperature	-30~+80℃ (未结冰状态 No icing)					
使用周围湿度 Ambient humidity	35~95%RH (未结露状态 No condensation)					
保护电路 Protection circuit	内置浪涌保护、过流保护电路 Surge protection circuit, Overcurrent protection circuit					
材质 Material	外壳/螺母: 镀镍黄铜, 垫片: 镍镀铁, 检测面: PBT, 一般线缆 (灰色): 聚氯乙烯 (PVC), 耐油性线缆 (黑色): 聚氯乙烯 (耐油强化型 PVC) Case/Nut: Nickel plated Brass, Washer: Nickel plated Iron, Sensing surface: PBT, Standard cable(Gray): Polyvinyl chloride(PVC), Oil resistant cable(Black): Oil resistant Polyvinyl chloride(PVC)					
连接线缆 Cable	φ 3.8, 2P, 300mm, M12 连接器 connector			φ 4.8, 2P, 300mm, M12 连接器 connector		
防护等级 Protection	IP67					

(※1) 开关动作的应答频率为平均值。测定条件使用标准检测物, 检测物的间距为标准检测物的 2 倍, 设定距离为检测距离的 1/2。

(※1): The response frequency is the average value. The standard sensing target is used and the width is set as 2 times of the standard sensing target, 1/2 of the sensing distance for the distance.

规格 Specifications

交流 2 线式 AC 2-wire type

型号名 Model	PCJY12-02KAR PCJY12-02KBR	PCJY12-04KAR PCJY12-04KBR	PCJY18-05KAR PCJY18-05KBR	PCJY18-08KAR PCJY18-08KBR	PCJY30-10KAR PCJY30-10KBR	PCJY30-15KAR PCJY30-15KBR
检测距离 Sensing distance	2mm	4mm	5mm	8mm	10mm	15mm
应差距离 Hysteresis	检测距离的 10% 以下 Max. 10% of sensing distance					
标准检测物 Standard sensing target	12 × 12 × 1mm (铁 Iron)		18 × 18 × 1mm (铁 Iron)	25 × 25 × 1mm (铁 Iron)	30 × 30 × 1mm (铁 Iron)	45 × 45 × 1mm (铁 Iron)
设定距离 Setting distance	0~1.4mm	0~2.8mm	0~3.5mm	0~5.6mm	0~7mm	0~10.5mm
电源 (使用电压范围) Power supply (Operating voltage)	24-250VAC					
漏电流 Leakage current	10mA 以下 Max.10mA					
应答频率 (※1) Response frequency (※1)	20Hz					
残留电压 Residual voltage	10V 以下 Max. 10V					
温度的影响 Affection by Temp.	在 -25~+70℃ 温度范围内 +20℃ 时的检测距离的 ± 10% 以内 Max. ± 10% for sensing distance at ambient temperature 20℃					
控制输出 Control output	200mA 以下 Max. 200mA					
绝缘阻抗 Insulation resistance	50MΩ 以上 (500VDC 为基准) Min. 50MΩ (at 500VDC megger)					
耐电压 Dielectric strength	1500VAC 50/60Hz 1 分钟 1500VAC 50/60Hz for 1minute					
耐振动 Vibration	10~55Hz(周期 1 分钟) 振幅 1mm X, Y, Z 各方向 2 小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours					
耐冲击 Shock	500m/s ² (50G) X, Y, Z 各方向 3 次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times					
显示灯 Indicator	动作指示灯 (红色 LED) Operation indicator(red LED)					
使用周围温度 Ambient temperature	-25~+70℃ (未结冰状态 No icing)					
储存温度 Storage temperature	-30~+80℃ (未结冰状态 No icing)					
使用周围湿度 Ambient humidity	35~95%RH (未结露状态 No condensation)					
保护电路 Protection circuit	内置浪涌保护电路 Surge protection current					
材质 Material	外壳 / 螺母: 镀镍黄铜, 垫片: 镍镀铁, 检测面: PBT, 一般线缆 (灰色): 聚氯乙烯 (PVC), 耐油性线缆 (黑色): 聚氯乙烯 (耐油强化型 PVC) Case/Nut: Nickel plated Brass, Washer: Nickel plated Iron, Sensing surface: PBT, Standard cable(Gray): Polyvinyl chloride(PVC), Oil resistant cable(Black): Oil resistant Polyvinyl chloride(PVC)					
连接线缆 Cable	φ 3.8, 2P, 300mm, M12 连接器 connector			φ 4.8, 2P, 300mm, M12 连接器 connector		
防护等级 Protection	IP67					

(※1) 开关动作的应答频率为平均值。测定条件使用标准检测物, 检测物的间距为标准检测物的 2 倍, 设定距离为检测距离的 1/2。

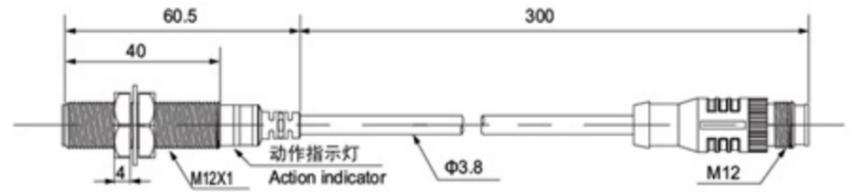
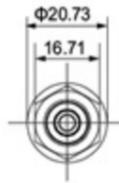
(※1): The response frequency is the average value. The standard sensing target is used and the width is set as 2 times of the standard sensing target, 1/2 of the sensing distance for the distance.

PCJY-R 圆柱形引线接插型接近开关 (高端型)

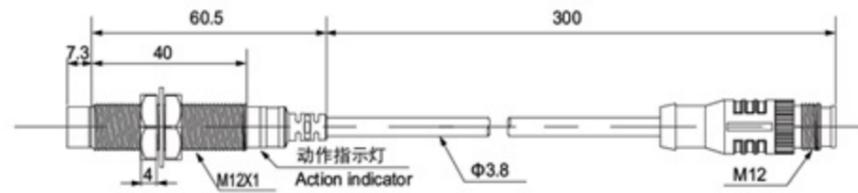
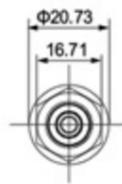
Proximity Sensor Cylindrical Cable Connector Type (High-end type)

外观和尺寸 Appearance and Dimension

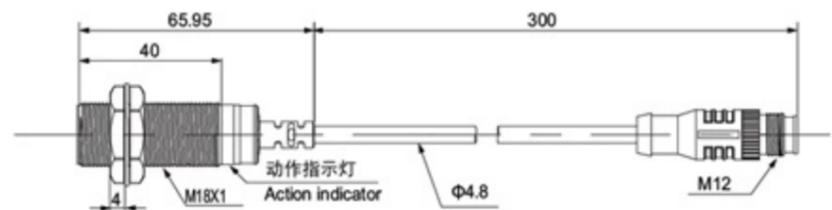
PCJY12-02R



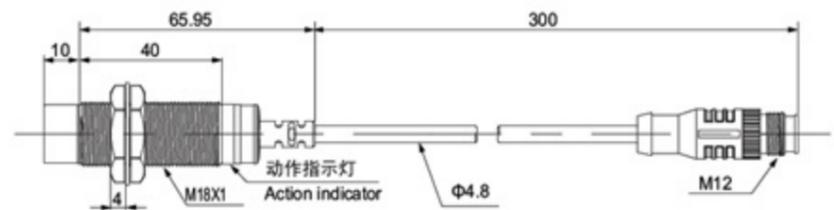
PCJY12-04R



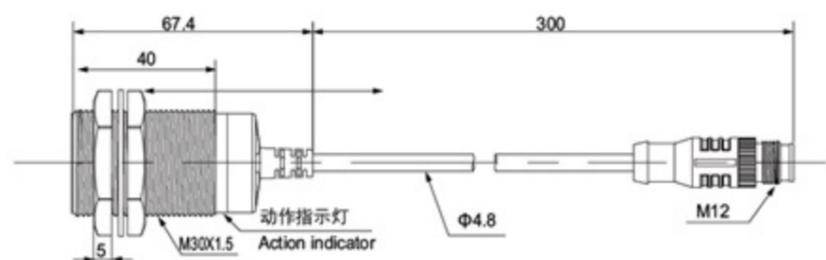
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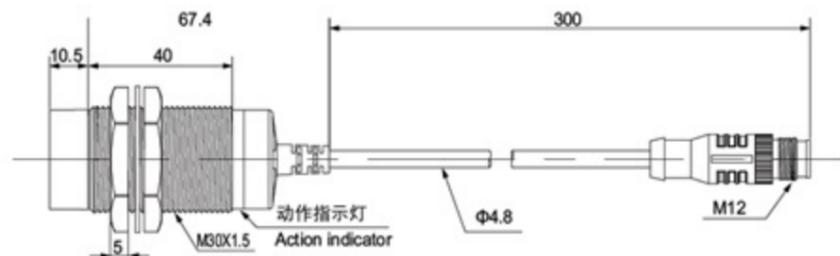
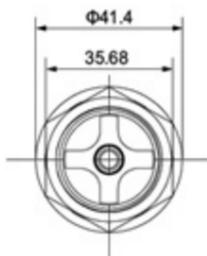
PCJY18-08R



PCJY30-10R

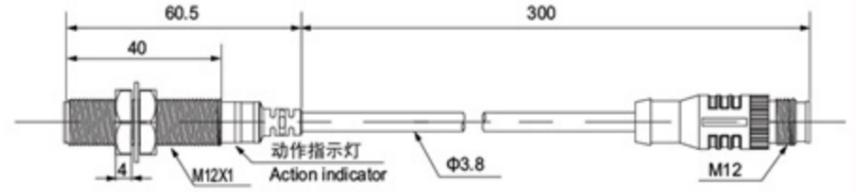


PCJY30-15R

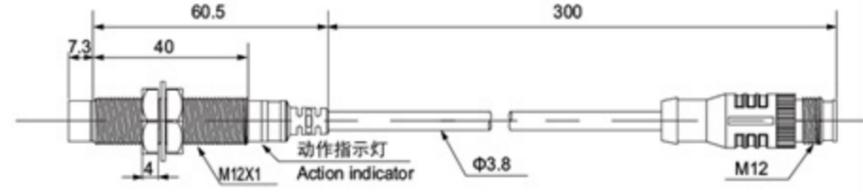


外观和尺寸 Appearance and Dimension

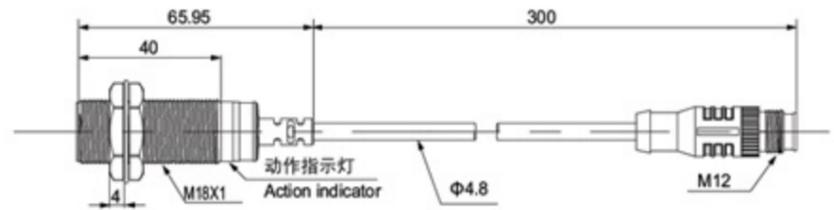
PCJY12E-02R



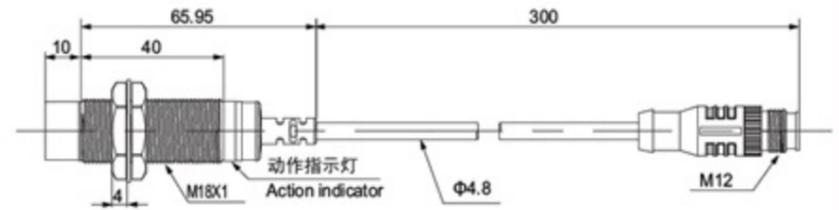
PCJY12E-04R



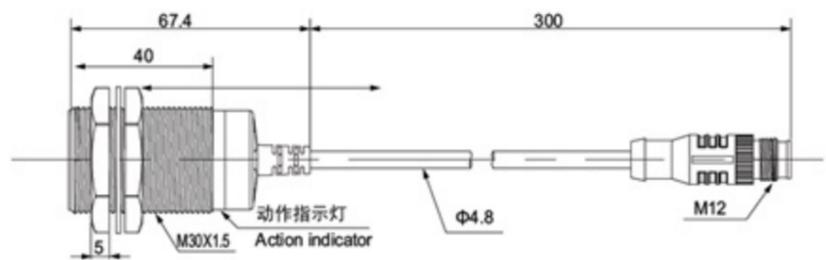
PCJY18E-05R



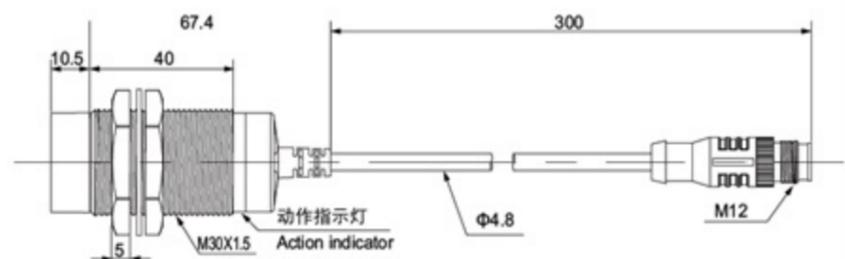
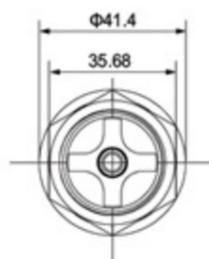
PCJY18E-08R



PCJY30E-10R

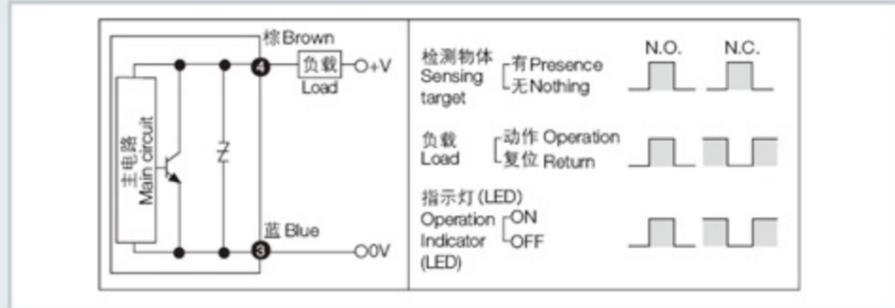


PCJY30E-15R

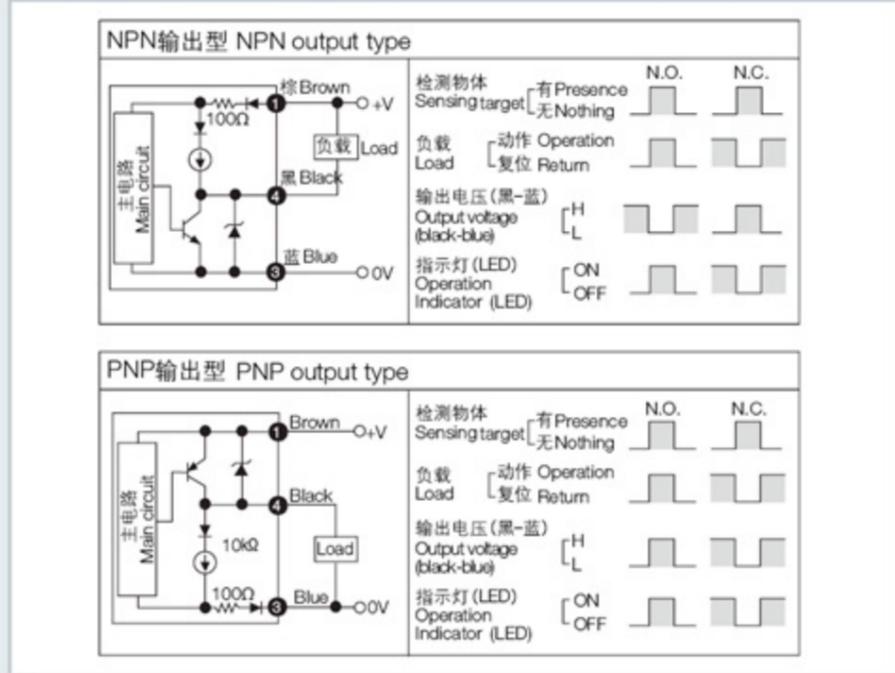


输出电路 Control Output Diagram

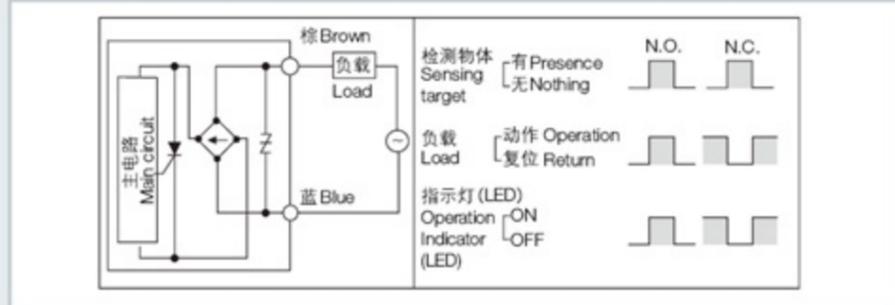
直流 2 线式 DC 2-wire type



直流 3 线式 DC 3-wire type



交流 2 线式 AC 2-wire type



正确使用 Proper Usage

相互干扰 Mutual-interference

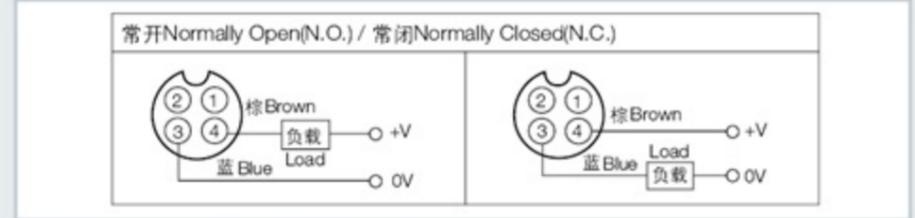
当把两个以上的接近开关一起安装使用时，可能会发生相互干扰引起的误动作，在安装时请务必满足下表中规定的尺寸要求进行安装。
When several proximity sensors are mounted close to one another a malfunction of the sensor may be caused due to mutual interference. Therefore, be sure to provide a minimum distance between the two sensors as below chart indicates.



型号名 Model	PCJY12-02R	PCJY12-04R	PCJY18-05R	PCJY18-08R	PCJY30-10R	PCJY30-15R
项目 Item	PCJY12E-02R	PCJY12E-04R	PCJY18E-05R	PCJY18E-08R	PCJY30E-10R	PCJY30E-15R
A	12	24	30	48	60	90
B	24	36	36	54	60	90
l	0	11	0	14	0	15
phi d	12	36	18	54	30	90
m	6	12	15	24	30	45
n	18	36	27	54	45	90

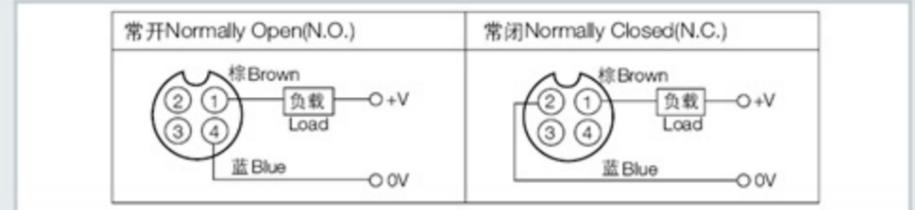
连接器接线图 Wiring Diagram

直流 2 线式 (标准型) DC 2-wire type (Standard type)



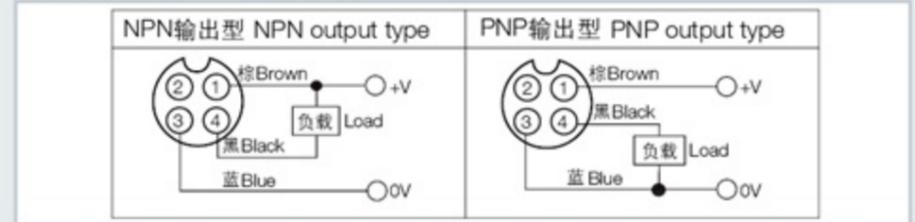
※ Pin ①, ②为 N.C(Not Connected) 端子。
※ 当使用直流 3 线连接电缆时，黑线作为 (24VDC) 及蓝线作为 (0V) 使用。
※ Pin ①, ② are not used terminals.
※ When using DC 3-wire type of connector cable, black (12-24VDC) and blue(0V) cables can be used.

直流 2 线式 (IEC 规格) DC 2-wire type (IEC standard type)



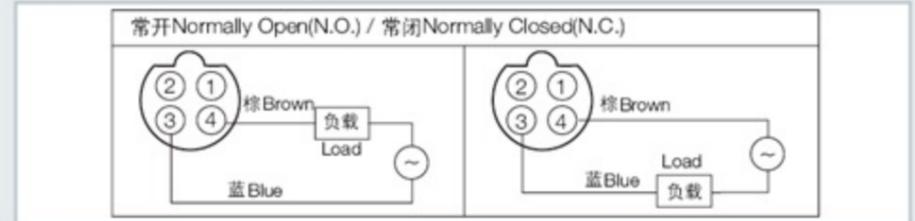
※ N.O.Type 的 ②, ③与 N.C.Type 的 ③, ④为 N.C(Not Connected) 端子。
※ 请使用 IEC 规格的接插头。
※ ②, ③ of N.O. type and ③, ④ of N.C. type are not used terminals.
※ Please use the IEC specifications of the plug.

直流 3 线式 DC 3-wire type



※ 结合接插头时，请使用 (0.39~0.49N·m 拧紧螺丝)。
※ 在发生震动的地方请用胶带缠住连接线缆后使用。
※ Please fasten the cleat of connector not to shown the thread. (0.39 to 0.49N.m)
※ Please fasten the vibration part with Teflon tape.

交流 2 线式 AC 2-wire type



※ 交流开闭型时，②与③、①与④内部是相连接的。
※ In case of AC switching type, ② and ③, ① and ④ are connected to each other inside.

周围金属的影响 Influence by surrounding metals

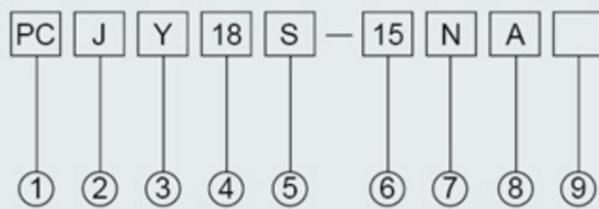
当接近传感器周围有金属存在时，为防止复位不正常等误差发生，安装时请满足下表中规定的尺寸要求进行安装。
When sensors are mounted on metallic panel, you must prevent the sensors from being affected by any metallic object except target. Therefore, be sure to provide a minimum distance as below chart indicates.



特点 Features

- 可以实现远距离检测 (额定检测距离比原有产品提高 1.5~2 倍)
- 采用专用 IC 提高抗干扰能力
- 内置浪涌保护, 电源反接保护和过流保护电路
- 寿命长, 高可靠性, 操作简单, 经济实惠
- 红色 LED 状态指示灯, 易于识别运行状态
- IP67 防护等级 (IEC 规格)
- 可以代替微动开关或限位开关广泛使用
- Long sensing distance (1.5 to 2 times longer sensing distance guaranteed compared to existing models)
- Exclusively designed IC for improving anti-jamming capability
- Inside surge protection, reverse polarity protection, overcurrent protection
- Long use-life cycle and high reliability, easy install, economic price
- Red LED status indication, easy to confirm work situation
- Protection structure IP67(IEC standard)
- Replaceable for limit switches

型号说明 Model Number Structure



项目 Item	代号 Code	说明 Description
① 公司代号 Company code	PC	公司代号 Company code
② 产品名称 Product name	J	电感式接近开关 Inductive proximity sensor
③ 外壳形状 Shape of shell	Y	圆柱形 Cylinder-shaped
④ 尺寸代码 Dimension code	18	18=M18
⑤ 产品类型 Product type	S	远距离型 Long-range type
⑥ 检测距离 Detection distance	15	15=15mm
⑦ 输出方式 Output mode	K	AC 二线 AC 2wires
	L	DC 二线 DC 2wires
	P	PNP 三线 PNP 3wires
	N	NPN 三线 NPN 3wires
⑧ 输出状态 Output state	A	常开 NO
	B	常闭 NC
	C	常开 + 常闭 NO+NC
⑨ 连接形式 Connection	无 Without	引线式 Without: Lead wire
	T	接插式 Plug-in
	R	配线引出接插式 Wiring leads Plug-in

规格 Specifications

直流 3 线式 DC 3-wire type

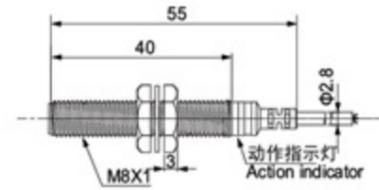
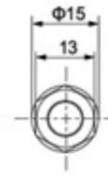
型号名 Model	PCJY08S-1.5NA PCJY08S-1.5NB PCJY08S-1.5PA PCJY08S-1.5PB	PCJY08S-03NA PCJY08S-03NB PCJY08S-03PA PCJY08S-03PB	PCJY12S-04NA PCJY12S-04NB PCJY12S-04NC PCJY12S-04PA PCJY12S-04PB PCJY12S-04PC	PCJY12S-07NA PCJY12S-07NB PCJY12S-07NC PCJY12S-07PA PCJY12S-07PB PCJY12S-07PC	PCJY18S-10NA PCJY18S-10NB PCJY18S-10NC PCJY18S-10PA PCJY18S-10PB PCJY18S-10PC	PCJY18S-15NA PCJY18S-15NB PCJY18S-15NC PCJY18S-15PA PCJY18S-15PB PCJY18S-15PC	PCJY30S-17NA PCJY30S-17NB PCJY30S-17NC PCJY30S-17PA PCJY30S-17PB PCJY30S-17PC	PCJY30S-25NA PCJY30S-25NB PCJY30S-25NC PCJY30S-25PA PCJY30S-25PB PCJY30S-25PC
检测距离 Sensing distance	1.5mm	3mm	4mm	7mm	10mm	15mm	17mm	25mm
应差距离 Hysteresis	检测距离的 10% 以下 Max. 10% of sensing distance							
标准检测物 Standard sensing target	8×8×1mm (铁 Iron)	8×8×1mm (铁 Iron)	12×12×1mm (铁 Iron)	25×25×1mm (铁 Iron)	20×20×1mm (铁 Iron)	40×40×1mm (铁 Iron)	45×45×1mm (铁 Iron)	75×75×1mm (铁 Iron)
设定距离 Setting distance	0~1.8mm	0~3.5mm	0~3.5mm	0~6.5mm	0~8.5mm	0~13.5mm	0~18.5mm	0~28.5mm
电源 (使用电压范围) Power supply (Operating voltage)	12-24VDC (10-30VDC)							
漏电流 Leakage current	10mA 以下 Max.10mA							
应答频率 (※1) Response frequency (※1)	450Hz	400Hz	400Hz	300Hz	300Hz	200Hz	100Hz	100Hz
残留电压 (※2) Residual voltage (※2)	1V 以下 Max. 1V							
温度的影响 Affection by Temp.	在 -25~+70℃ 温度范围内 +20℃ 时的检测距离的 ± 10% 以内 Max. ± 10% for sensing distance at ambient temperature 20℃							
控制输出 Control output	200mA 以下 Max. 200mA							
绝缘阻抗 Insulation resistance	50MΩ 以上 (500VDC 为基准) Min. 50MΩ (at 500VDC megger)							
耐电压 Dielectric strength	1500VAC 50/60Hz 1 分钟 1500VAC 50/60Hz for 1minute							
耐振动 Vibration	10~55Hz(周期 1 分钟) 振幅 1mm X, Y, Z 各方向 2 小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours							
耐冲击 Shock	500m/s ² (50G) X, Y, Z 各方向 3 次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times							
显示灯 Indicator	动作指示灯 (红色 LED) Operation indicator(red LED)							
使用周围温度 Ambient temperature	-25~+70℃ (未结冰状态 No icing)							
储存温度 Storage temperature	-30~+80℃ (未结冰状态 No icing)							
使用周围湿度 Ambient humidity	35~95%RH (未结露状态 No condensation)							
保护电路 Protection circuit	内置浪涌保护, 电源反接保护, 过流保护电路 Surge protection circuit, Reverse polarity protection circuit, Overcurrent protection circuit							
材质 Material	外壳 / 螺母: 镀镍黄铜, 垫片: 镍镀铁, 检测面: PBT, 一般线缆 (灰色): 聚氯乙烯 (PVC), 耐油性线缆 (黑色): 聚氯乙烯 (耐油强化型 PVC) Case/Nut: Nickel plated Brass, Washer: Nickel plated Iron, Sensing surface: PBT, Standard cable(Gray): Polyvinyl chloride(PVC), Oil resistant cable(Black): Oil resistant Polyvinyl chloride(PVC)							
连接线缆 Cable	φ 2.8, 3P, 2m		φ 3.8, 3P,4P 2m			φ 4.8, 3P,4P 2m		
	(AWG22, 芯线直径:0.1mm, 芯线数:22, 绝缘皮外径: φ 1.25mm) (AWG22, Core diameter: 0.1mm, Number of cores: 22, Insulator diameter: φ 1.25)		(AWG22, 芯线直径:0.1mm, 芯线数:25, 绝缘皮外径: φ 1.25mm) (AWG22, Core diameter: 0.1mm, Number of cores: 25, Insulator diameter: φ 1.25)			(AWG22, 芯线直径:0.1mm, 芯线数:30, 绝缘皮外径: φ 1.25mm) (AWG22, Core diameter: 0.1mm, Number of cores: 30, Insulator diameter: φ 1.25)		
防护等级 Protection	IP67							

(※1) 开关动作的应答频率为平均值。测定条件使用标准检测物, 检测物的间距为标准检测物的 2 倍, 设定距离为检测距离的 1/2。

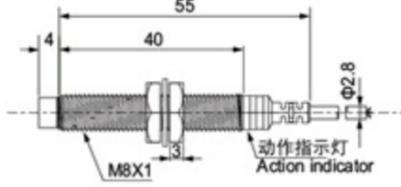
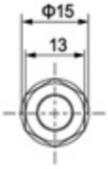
(※1): The response frequency is the average value. The standard sensing target is used and the width is set as 2 times of the standard sensing target, 1/2 of the sensing distance for the distance.

外观和尺寸 Appearance and Dimension

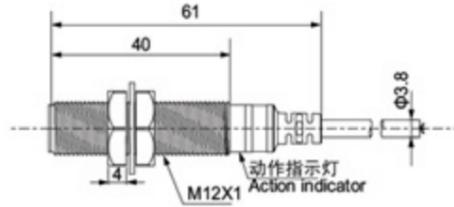
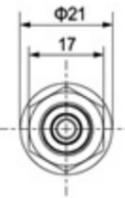
PCJY08S-1.5



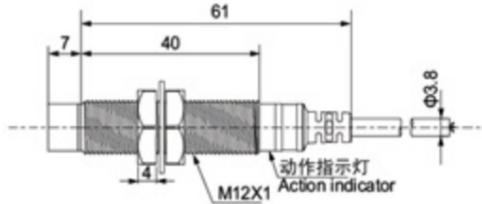
PCJY08S-03



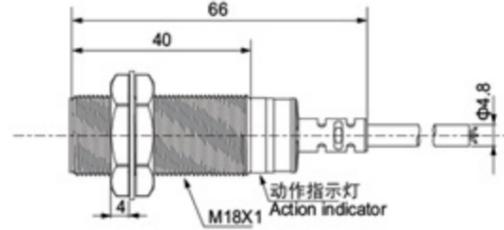
PCJY12S-04



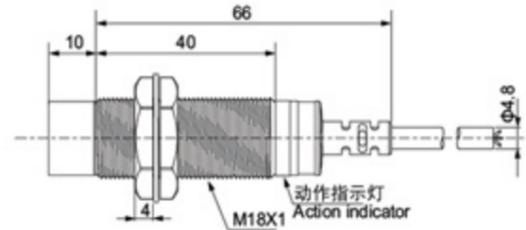
PCJY12S-07



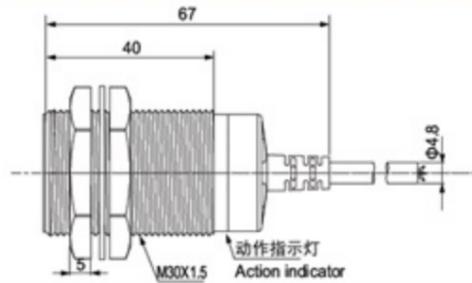
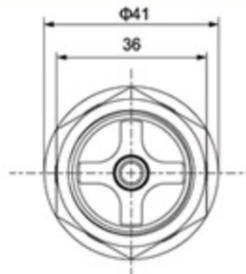
PCJY18S-10



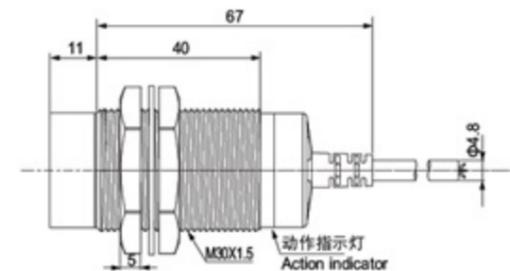
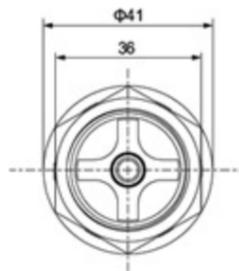
PCJY18S-15



PCJY30S-17

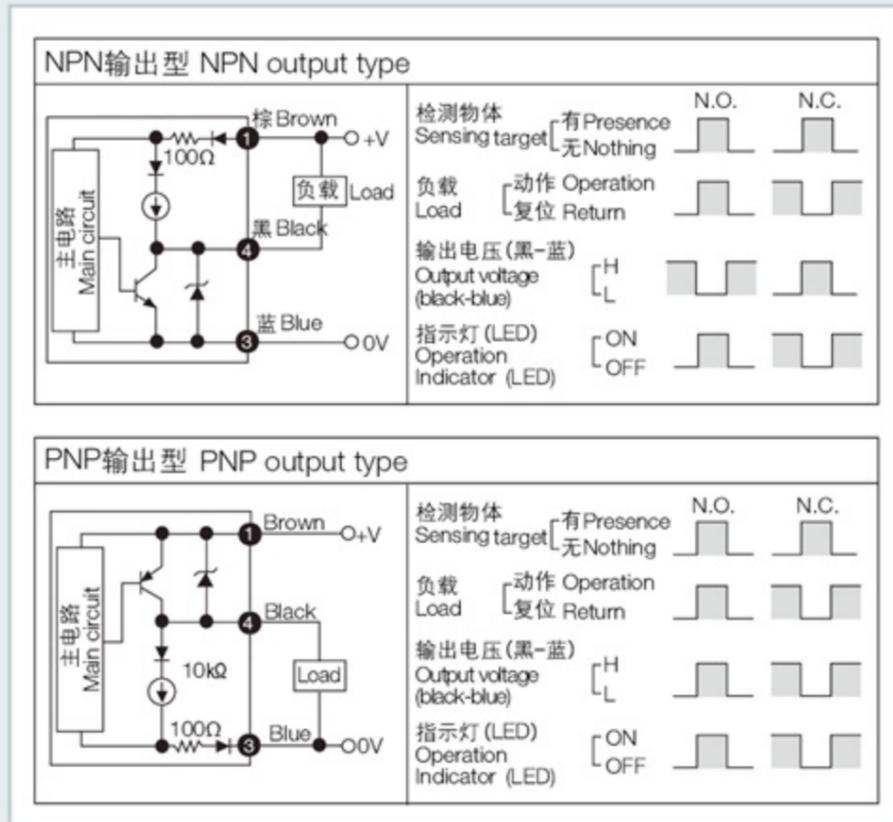


PCJY30S-25



输出电路 Control Output Diagram

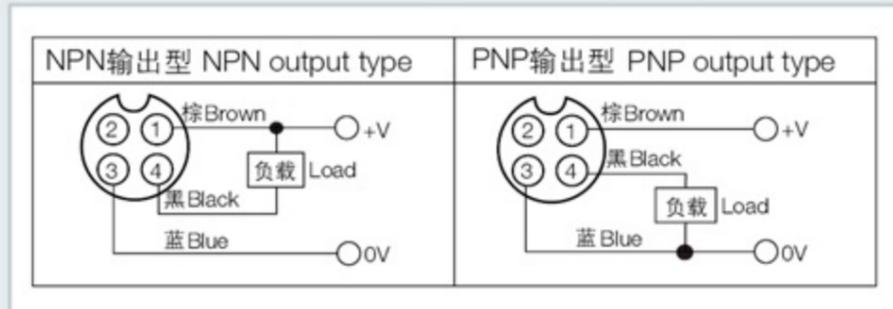
直流 3 线式 DC 3-wire type



※ 圈里面的数字是表示插头 (pin) 的编号
 ※ The number in a circle is pin no. of connector.

连接器接线图 Wiring Diagram

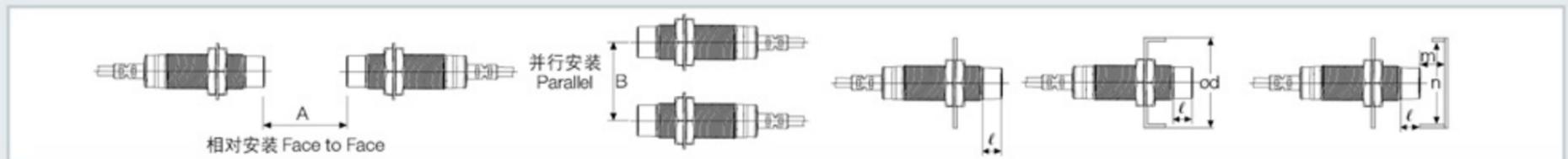
直流 3 线式 (标准型) DC 3-wire type (Standard type)



正确使用 Proper Usage

相互干扰 Mutual-interference

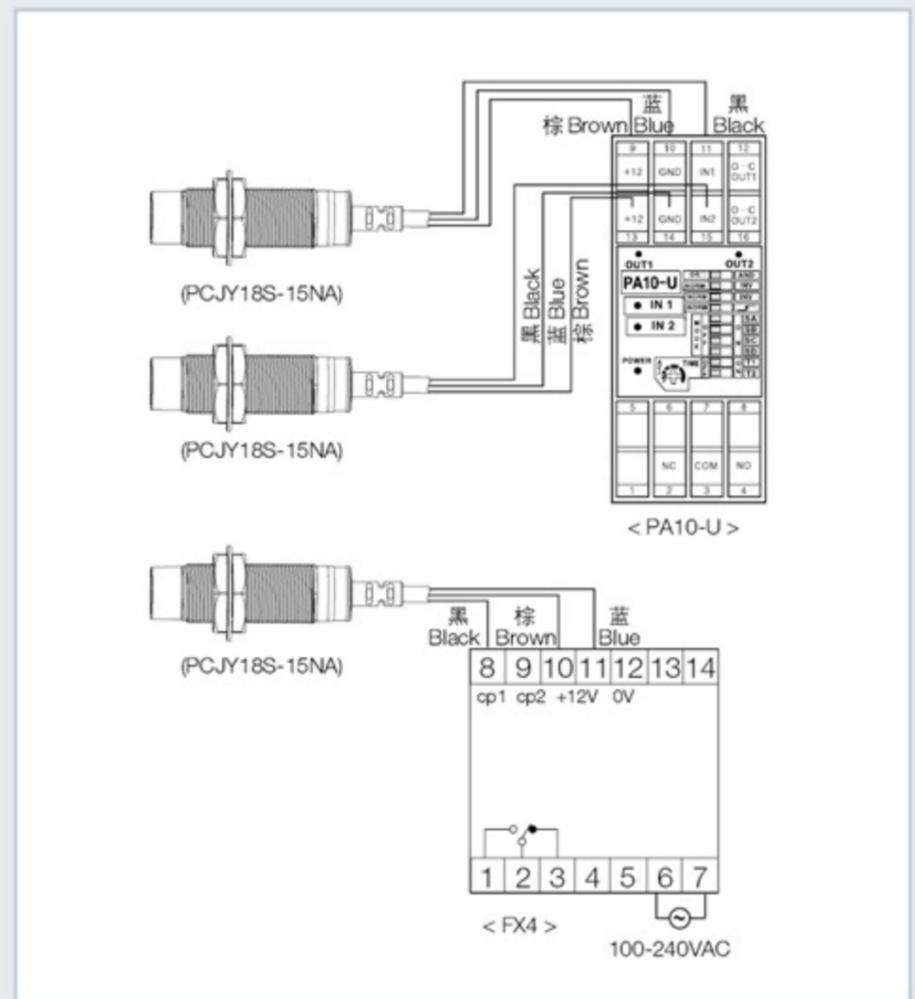
当把两个以上的接近开关一起安装使用时, 可能会发生相互干扰引起的误动作, 在安装时请务必满足下表中所规定的尺寸要求进行安装。
 When several proximity sensors are mounted close to one another a malfunction of the sensor may be caused due to mutual interference. Therefore, be sure to provide a minimum distance between the two sensors as below chart indicates.



型号名 Model	PCJY08S-1.5	PCJY08S-03	PCJY12S-04	PCJY12S-07	PCJY18S-10	PCJY18S-15	PCJY30S-17	PCJY30S-25
项目 Item								
A	9	12	24	48	42	84	90	150
B	16	24	24	36	36	54	60	90
l	0	8	0	11	0	14	0	15
φ d	8	24	12	36	18	54	30	90
m	4.5	6	12	24	21	42	45	75
n	12	24	18	36	27	54	45	90

连接 Connections

直流 3 线式 DC 3-wire type



※ 结合接插头时, 请使用 (0.39~0.49N·m 拧紧螺丝)。
 ※ 在发生震动的地方请用胶带缠住连接线缆后使用。
 ※ Please fasten the cleat of connector not to shown the thread. (0.39 to 0.49N.m)
 ※ Please fasten the vibration part with Teflon tape.

周围金属的影响 Influence by surrounding metals

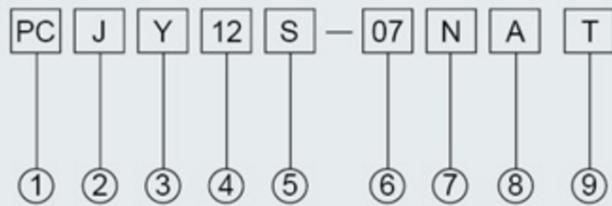
当接近传感器周围有金属存在时, 为防止复位不正常等误差发生, 安装时请满足下表中所规定的尺寸要求进行安装。
 When sensors are mounted on metallic panel, you must prevent the sensors from being affected by any metallic object except target. Therefore, be sure to provide a minimum distance as below chart indicates.

特点 Features

- 可以实现远距离检测 (额定检测距离比原有产品提高 1.5~2 倍)
- 采用专用 IC 提高抗干扰能力
- 内置浪涌保护, 电源反接保护和过流保护电路
- 寿命长, 高可靠性, 操作简单, 经济实惠
- 红色 LED 状态指示灯, 易于识别运行状态
- IP65 防护等级 (IEC 规格)
- 可以代替微动开关或限位开关广泛使用
- Long sensing distance (1.5 to 2 times longer sensing distance guaranteed compared to existing models)
- Exclusively designed IC for improved the noise resistance
- Inside surge protection, reverse polarity protection, overcurrent protection
- Long use-life cycle and high reliability, easy install, economic price
- Red LED status indication, easy to confirm work situation
- Protection structure IP65(IEC standard)
- Replaceable for limit switches



型号说明 Model Number Structure



项目 Item	代号 Code	说明 Description
① 公司代号 Company code	PC	公司代号 Company code
② 产品名称 Product name	J	电感式接近开关 Inductive proximity sensor
③ 外壳形状 Shape of shell	Y	圆柱形 Cylinder-shaped
④ 尺寸代码 Dimension code	12	12=M12
⑤ 产品类型 Product type	S	远距离型 Long-range type
⑥ 检测距离 Detection distance	07	07=7mm
⑦ 输出方式 Output mode	K	AC 二线 AC 2wires
	L	DC 二线 DC 2wires
	P	PNP 三线 PNP 3wires
	N	NPN 三线 NPN 3wires
⑧ 输出状态 Output state	A	常开 NO
	B	常闭 NC
	C	常开 + 常闭 NO+NC
⑨ 连接形式 Connection	无 Without	引线式 Without: Lead wire
	T	接插式 Plug-in
	R	配线引出接插式 Wiring leads Plug-in

规格 Specifications

直流 3 线式 DC 3-wire type

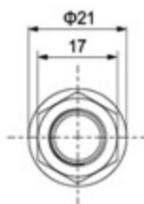
型号名 Model	PCJY12S-04NAT PCJY12S-04NBT PCJY12S-04NCT PCJY12S-04PAT PCJY12S-04PBT PCJY12S-04PCT	PCJY12S-07NAT PCJY12S-07NBT PCJY12S-07NCT PCJY12S-07PAT PCJY12S-07PBT PCJY12S-07PCT	PCJY18S-10NAT PCJY18S-10NBT PCJY18S-10NCT PCJY18S-10PAT PCJY18S-10PBT PCJY18S-10PCT	PCJY18S-15NAT PCJY18S-15NBT PCJY18S-15NCT PCJY18S-15PAT PCJY18S-15PBT PCJY18S-15PCT	PCJY30S-17NAT PCJY30S-17NBT PCJY30S-17NCT PCJY30S-17PAT PCJY30S-17PBT PCJY30S-17PCT	PCJY30S-25NAT PCJY30S-25NBT PCJY30S-25NCT PCJY30S-25PAT PCJY30S-25PBT PCJY30S-25PCT
检测距离 Sensing distance	4mm	7mm	10mm	15mm	17mm	25mm
应差距离 Hysteresis	检测距离的 10% 以下 Max. 10% of sensing distance					
标准检测物 Standard sensing target	12 × 12 × 1mm (铁 Iron)	25 × 25 × 1mm (铁 Iron)	20 × 20 × 1mm (铁 Iron)	40 × 40 × 1mm (铁 Iron)	45 × 45 × 1mm (铁 Iron)	75 × 75 × 1mm (铁 Iron)
设定距离 Setting distance	0~2.8mm	0~5.6mm	0~4.9mm	0~9.8mm	0~10.5mm	0~17.5mm
电源 (使用电压范围) Power supply (Operating voltage)	12-24VDC (10-30VDC)					
漏电流 Leakage current	10mA 以下 Max.10mA					
应答频率 (*1) Response frequency (*1)	400Hz	300Hz	300Hz	200Hz	100Hz	100Hz
残留电压 Residual voltage	1V 以下 Max. 1V					
温度的影响 Affection by Temp.	在 -25~+70℃ 温度范围内 +20℃ 时的检测距离的 ± 10% 以内 Max. ± 10% for sensing distance at ambient temperature 20℃					
控制输出 Control output	200mA 以下 Max. 200mA					
绝缘阻抗 Insulation resistance	50MΩ 以上 (500VDC 为基准) Min. 50MΩ (at 500VDC megger)					
耐电压 Dielectric strength	1500VAC 50/60Hz 1 分钟 1500VAC 50/60Hz for 1minute					
耐振动 Vibration	10~55Hz(周期 1 分钟) 振幅 1mm X, Y, Z 各方向 2 小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours					
耐冲击 Shock	500m/s ² (50G) X, Y, Z 各方向 3 次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times					
显示灯 Indicator	动作指示灯 (红色 LED) Operation indicator(red LED)					
使用周围温度 Ambient temperature	-25~+70℃ (未结冰状态 No icing)					
储存温度 Storage temperature	-30~+80℃ (未结冰状态 No icing)					
使用周围湿度 Ambient humidity	35~95%RH (未结露状态 No condensation)					
保护电路 Protection circuit	内置浪涌保护, 电源反接保护, 过流保护电路 Surge protection circuit, Reverse polarity protection circuit, Overcurrent protection circuit					
材质 Material	外壳 / 螺母: 镀镍黄铜, 垫片: 镍镀铁, 检测面: PBT Case/Nut: Nickel plated Brass, Washer: Nickel plated Iron, Sensing surface: PBT					
防护等级 Protection	IP65					

(*1) 开关动作的应答频率为平均值。测定条件使用标准检测物, 检测物的间距为标准检测物的 2 倍, 设定距离为检测距离的 1/2。

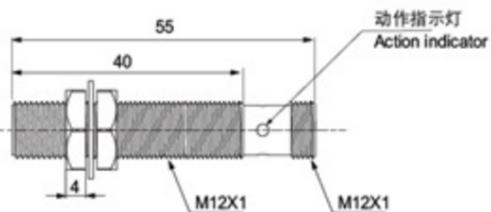
(*1) The response frequency is the average value. The standard sensing target is used and the width is set as 2 times of the standard sensing target, 1/2 of the sensing distance for the distance.

外观和尺寸 Appearance and Dimension

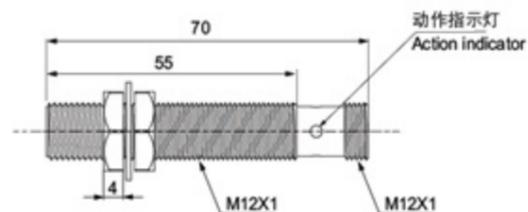
PCJY12S-04T



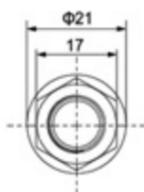
NA NB PA PB 如下图:
NA NB PA PB Following chart



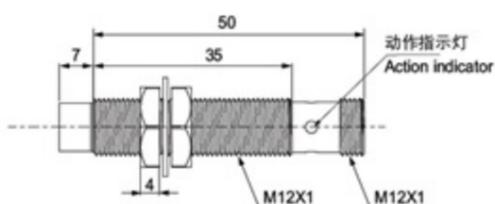
NC PC 如下图:
NC PC Following chart



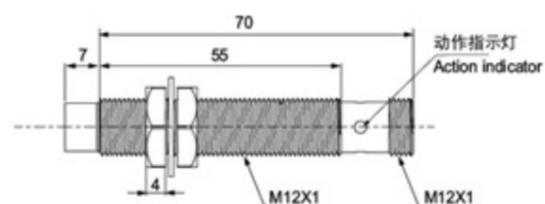
PCJY12S-07T



NA NB PA PB 如下图:
NA NB PA PB Following chart



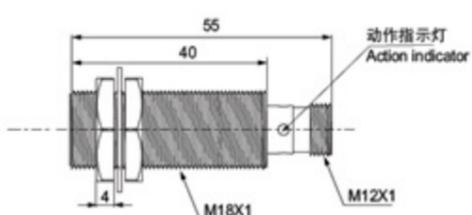
NC PC 如下图:
NC PC Following chart



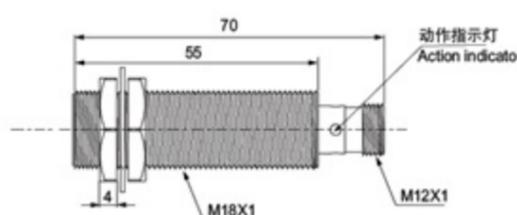
PCJY18S-10T



NA NB PA PB 如下图:
NA NB PA PB Following chart



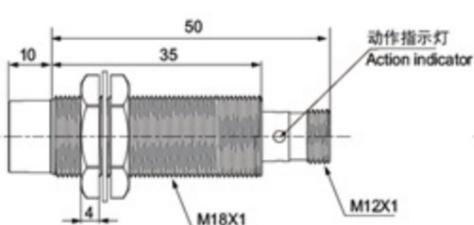
NC PC 如下图:
NC PC Following chart



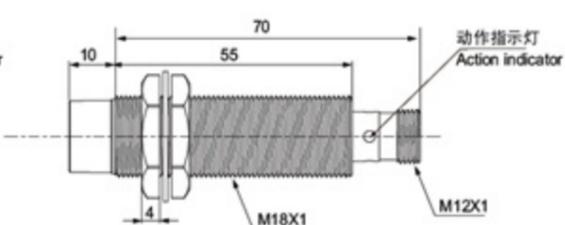
PCJY18S-15T



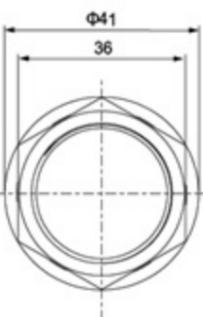
NA NB PA PB 如下图:
NA NB PA PB Following chart



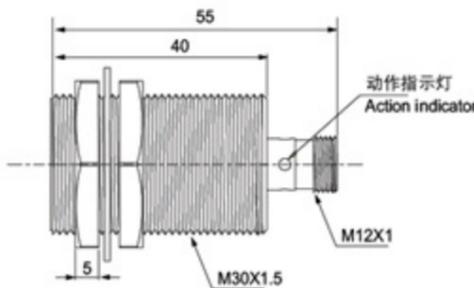
NC PC 如下图:
NC PC Following chart



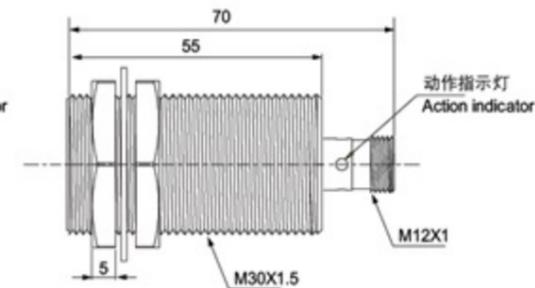
PCJY30S-17T



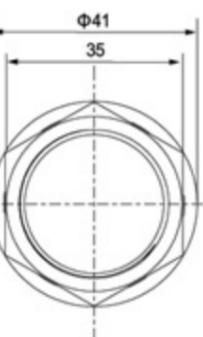
NA NB PA PB 如下图:
NA NB PA PB Following chart



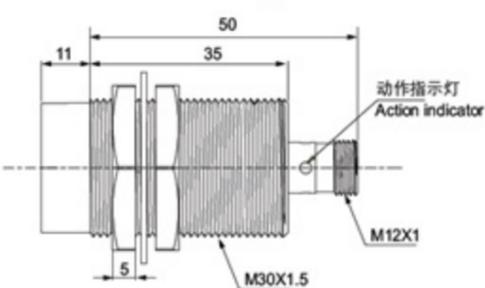
NC PC 如下图:
NC PC Following chart



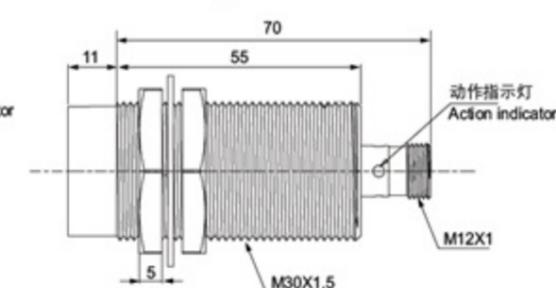
PCJY30S-25T



NA NB PA PB 如下图:
NA NB PA PB Following chart

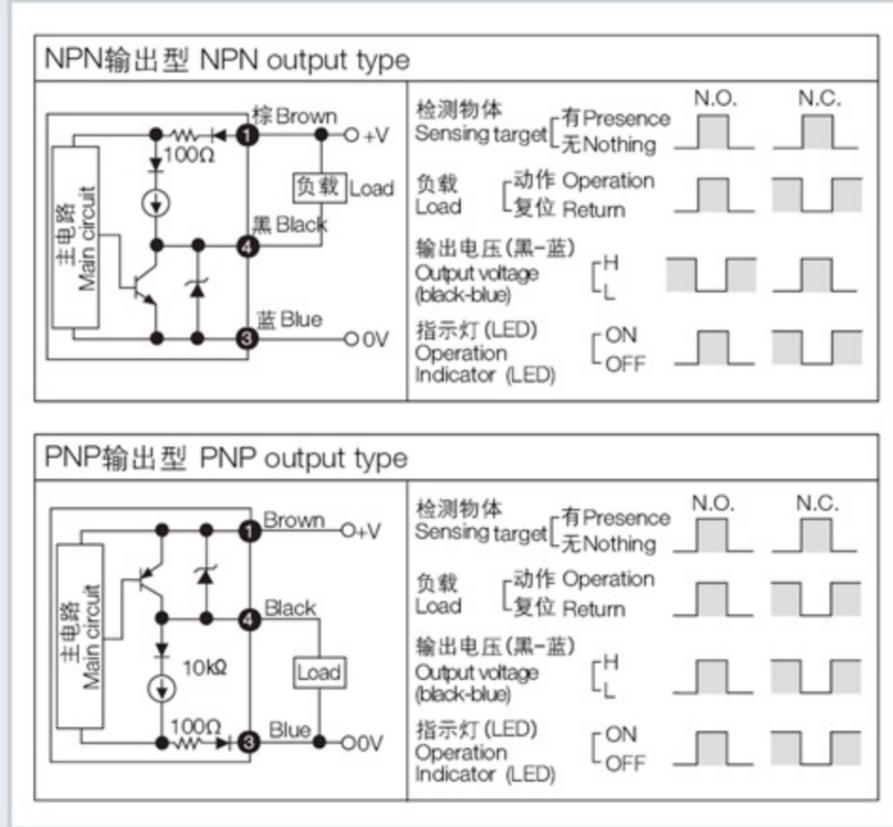


NC PC 如下图:
NC PC Following chart



输出电路 Control Output Diagram

直流 3 线式 DC 3-wire type



※ 圈里面的数字是表示插头 (pin) 的编号
 ※ The number in a circle is pin no. of connector.

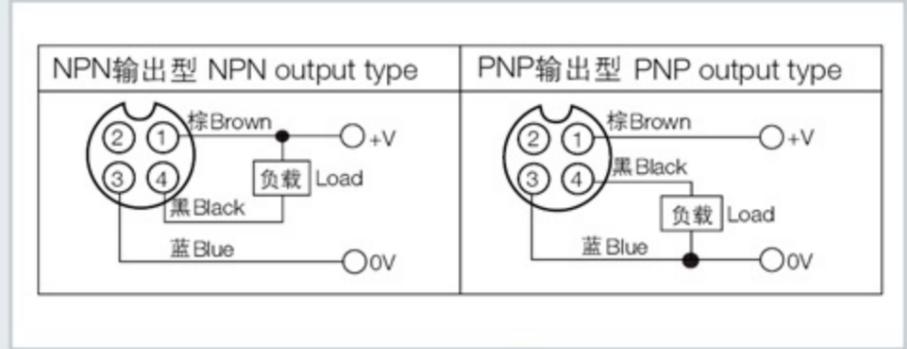
正确使用 Proper Usage

相互干扰 Mutual-interference

当把两个以上的接近开关一起安装使用时, 可能会发生相互干扰引起的误动作, 在安装时请务必满足下表中所规定的尺寸要求进行安装。
 When several proximity sensors are mounted close to one another a malfunction of the sensor may be caused due to mutual interference. Therefore, be sure to provide a minimum distance between the two sensors as below chart indicates.

连接器接线图 Wiring Diagram

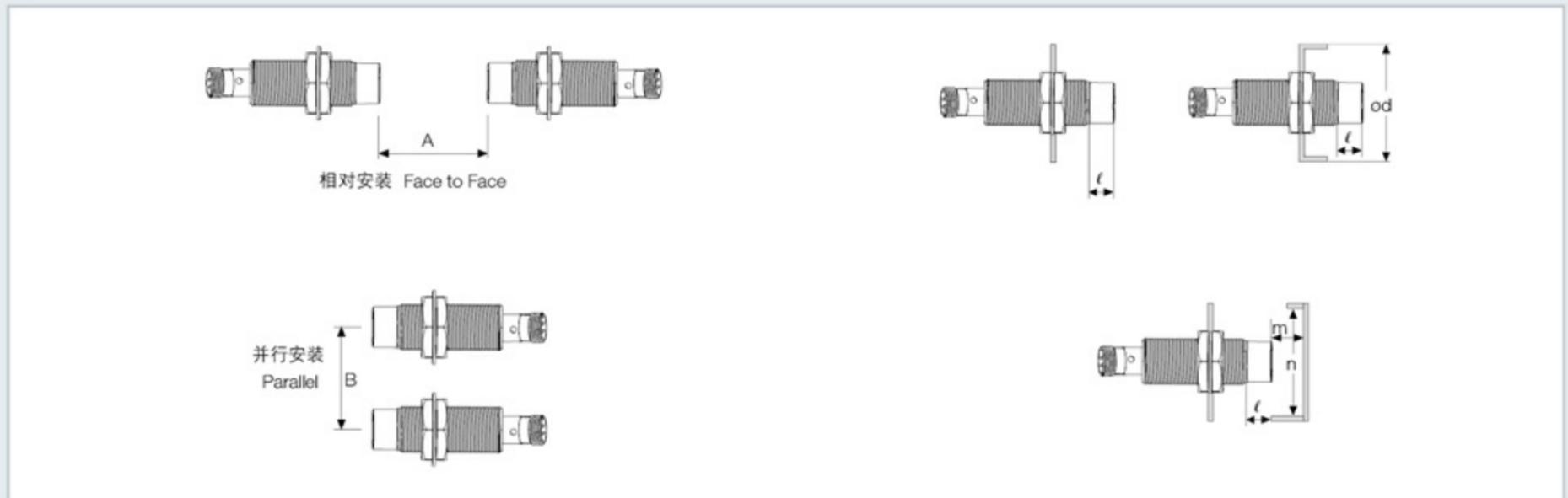
直流 3 线式 (标准型) DC 3-wire type (Standard type)



※ 结合接插头时, 请使用 (0.39~0.49N·m 拧紧螺丝)。
 ※ 在发生震动的地方请用胶带缠住连接线缆后使用。
 ※ Please fasten the cleat of connector not to shown the thread. (0.39 to 0.49N.m)
 ※ Please fasten the vibration part with Teflon tape.

周围金属的影响 Influence by surrounding metals

当接近传感器周围有金属存在时, 为防止复位不正常等误差发生, 安装时请满足下表中所规定的尺寸要求进行安装。
 When sensors are mounted on metallic panel, you must prevent the sensors from being affected by any metallic object except target. Therefore, be sure to provide a minimum distance as below chart indicates.



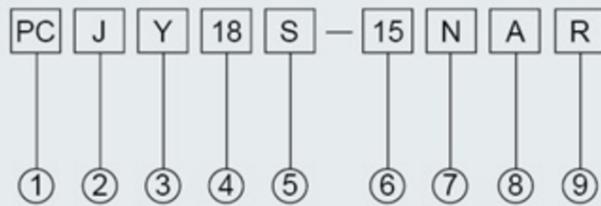
型号名 Model	PCJY12S-04T	PCJY12S-07T	PCJY18S-10T	PCJY18S-15T	PCJY30S-17T	PCJY30S-25T
项目 Item						
A	24	48	42	84	90	150
B	24	36	36	54	60	90
l	0	11	0	14	0	15
φd	12	36	18	54	30	90
m	12	24	21	42	45	75
n	18	36	27	54	45	90



特点 Features

- 可以实现远距离检测 (额定检测距离比原有产品提高 1.5 ~ 2 倍)
- 采用专用 IC 提高抗干扰能力
- 内置浪涌保护, 电源反接保护和过流保护电路
- 寿命长, 高可靠性, 操作简单, 经济实惠
- 红色 LED 状态指示灯, 易于识别运行状态
- IP67 防护等级 (IEC 规格)
- 可以代替微动开关或限位开关广泛使用
- Long sensing distance (1.5 to 2 times longer sensing distance guaranteed compared to existing models)
- Exclusively designed IC for improving anti-jamming capability
- Inside surge protection, reverse polarity protection, overcurrent protection
- Long use-life cycle and high reliability, easy install, economic price
- Red LED status indication, easy to confirm work situation
- Protection structure IP67(IEC standard)
- Replaceable for limit switches

型号说明 Model Number Structure



项目 Item	代号 Code	说明 Description
① 公司代号 Company code	PC	公司代号 Company code
② 产品名称 Product name	J	电感式接近开关 Inductive proximity sensor
③ 外壳形状 Shape of shell	Y	圆柱形 Cylinder-shaped
④ 尺寸代码 Dimension code	18	18=M18
⑤ 产品类型 Product type	S	远距离型 Long-range type
⑥ 检测距离 Detection distance	15	15=15mm
⑦ 输出方式 Output mode	K	AC 二线 AC 2wires
	L	DC 二线 DC 2wires
	P	PNP 三线 PNP 3wires
	N	NPN 三线 NPN 3wires
⑧ 输出状态 Output state	A	常开 NO
	B	常闭 NC
	C	常开 + 常闭 NO+NC
⑨ 连接形式 Connection	无 Without	引线式 Without: Lead wire
	T	接插式 Plug-in
	R	配线引出接插式 Wiring leads Plug-in

规格 Specifications

直流 3 线式 DC 3-wire type

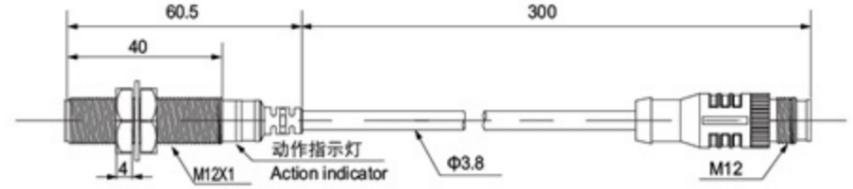
型号名 Model	PCJY12S-04NAR PCJY12S-04NBR PCJY12S-04NCR PCJY12S-04PAR PCJY12S-04PBR PCJY12S-04PCR	PCJY12S-07NAR PCJY12S-07NBR PCJY12S-07NCR PCJY12S-07PAR PCJY12S-07PBR PCJY12S-07PCR	PCJY18S-10NAR PCJY18S-10NBR PCJY18S-10NCR PCJY18S-10PAR PCJY18S-10PBR PCJY18S-10PCR	PCJY18S-15NAR PCJY18S-15NBR PCJY18S-15NCR PCJY18S-15PAR PCJY18S-15PBR PCJY18S-15PCR	PCJY30S-17NAR PCJY30S-17NBR PCJY30S-17NCR PCJY30S-17PAR PCJY30S-17PBR PCJY30S-17PCR	PCJY30S-25NAR PCJY30S-25NBR PCJY30S-25NCR PCJY30S-25PAR PCJY30S-25PBR PCJY30S-25PCR
检测距离 Sensing distance	4mm	7mm	10mm	15mm	17mm	25mm
应差距离 Hysteresis	检测距离的 10% 以下 Max. 10% of sensing distance					
标准检测物 Standard sensing target	12 × 12 × 1mm (铁 Iron)	25 × 25 × 1mm (铁 Iron)	20 × 20 × 1mm (铁 Iron)	40 × 40 × 1mm (铁 Iron)	45 × 45 × 1mm (铁 Iron)	75 × 75 × 1mm (铁 Iron)
设定距离 Setting distance	0~2.8mm	0~5.6mm	0~4.9mm	0~9.8mm	0~10.5mm	0~17.5mm
电源 (使用电压范围) Power supply (Operating voltage)	12-24VDC (10-30VDC)					
漏电流 Leakage current	10mA 以下 Max. 10mA					
应答频率 (※1) Response frequency (※1)	400Hz	300Hz	300Hz	200Hz	100Hz	100Hz
残留电压 Residual voltage	1V 以下 Max. 1V					
温度的影响 Affection by Temp.	在 -25~+70℃ 温度范围内 +20℃ 时的检测距离的 ± 10% 以内 Max. ± 10% for sensing distance at ambient temperature 20℃					
控制输出 Control output	200mA 以下 Max. 200mA					
绝缘阻抗 Insulation resistance	50MΩ 以上 (500VDC 为基准) Min. 50MΩ (at 500VDC megger)					
耐电压 Dielectric strength	1500VAC 50/60Hz 1 分钟 1500VAC 50/60Hz for 1minute					
耐振动 Vibration	10~55Hz(周期 1 分钟) 振幅 1mm X, Y, Z 各方向 2 小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours					
耐冲击 Shock	500m/s ² (50G) X, Y, Z 各方向 3 次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times					
显示灯 Indicator	动作指示灯 (红色 LED) Operation indicator(red LED)					
使用周围温度 Ambient temperature	-25~+70℃ (未结冰状态 No icing)					
储存温度 Storage temperature	-30~+80℃ (未结冰状态 No icing)					
使用周围湿度 Ambient humidity	35~95%RH (未结露状态 No condensation)					
保护电路 Protection circuit	内置浪涌保护, 电源反接保护, 过流保护电路 Surge protection circuit, Reverse polarity protection circuit, Overcurrent protection circuit					
材质 Material	外壳 / 螺母: 镀镍黄铜, 垫片: 镍镀铁, 检测面: PBT Case/Nut: Nickel plated Brass, Washer: Nickel plated Iron, Sensing surface: PBT					
连接线缆 Cable	φ 3.8, 3P,4P 300mm, M12 连接器 connector			φ 4.8, 3P,4P 300mm, M12 连接器 connector		
防护等级 Protection	IP67					

(※1) 开关动作的应答频率为平均值。测定条件使用标准检测物, 检测物的间距为标准检测物的 2 倍, 设定距离为检测距离的 1/2。

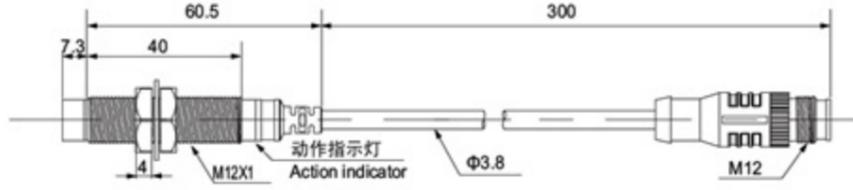
(※1) The response frequency is the average value. The standard sensing target is used and the width is set as 2 times of the standard sensing target, 1/2 of the sensing distance for the distance.

外观和尺寸 Appearance and Dimension

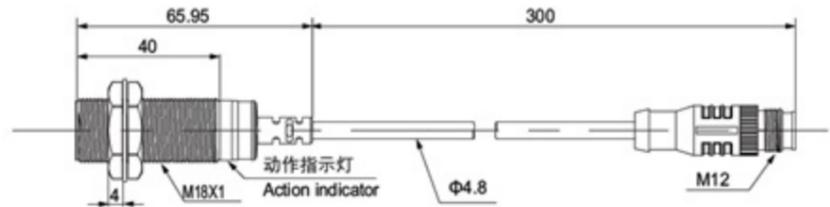
PCJY12S-04R



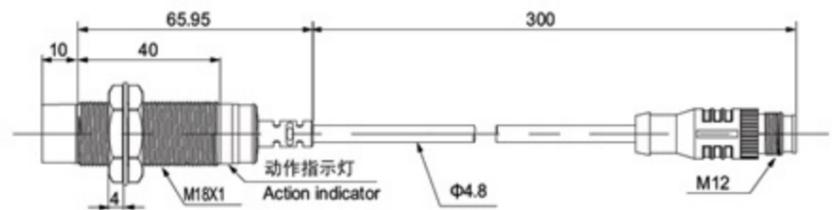
PCJY12S-07R



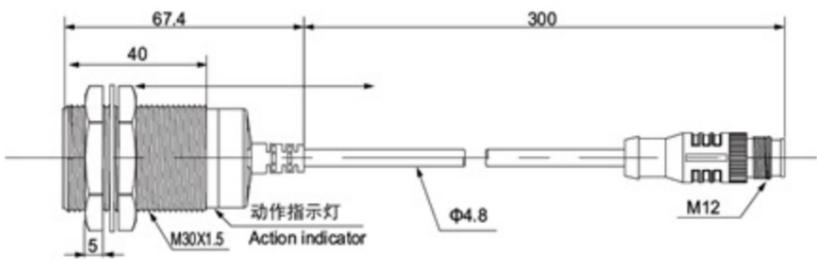
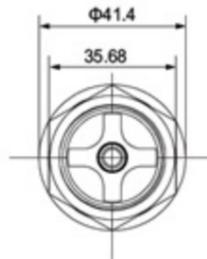
PCJY18S-10R



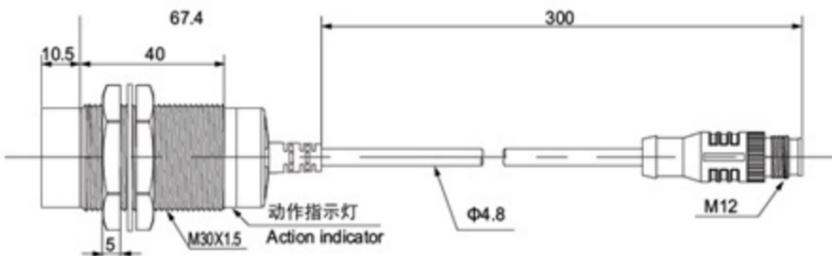
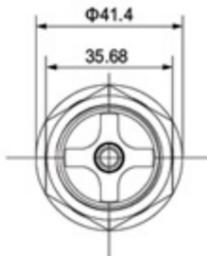
PCJY18S-15R



PCJY30S-17R

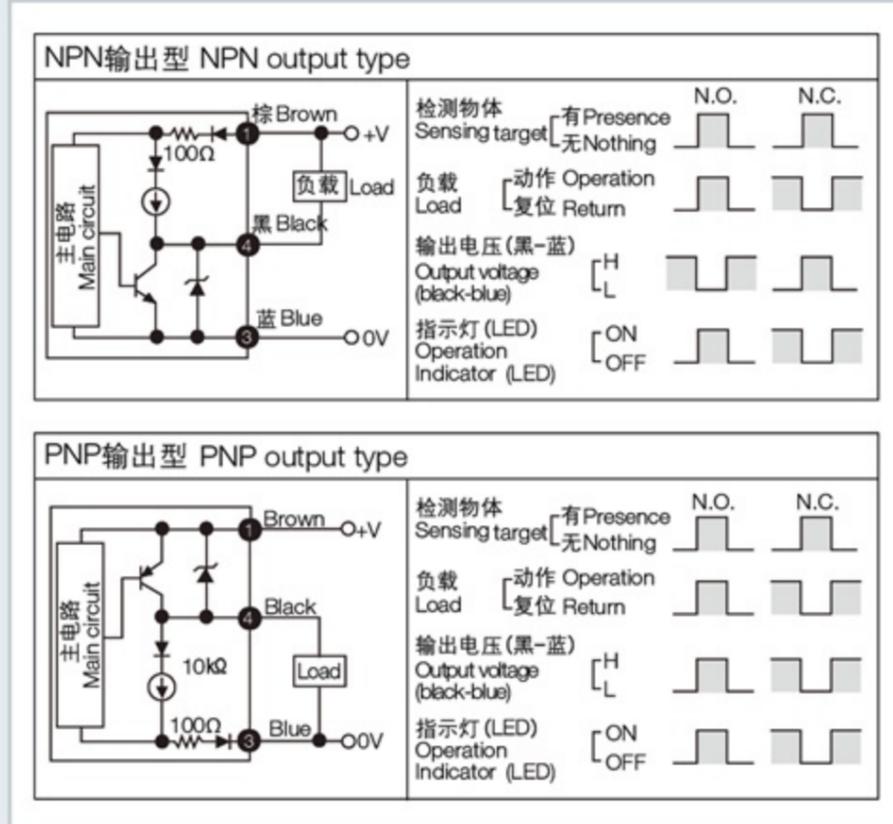


PCJY30S-25R



输出电路 Control Output Diagram

直流 3 线式 DC 3-wire type



※ 圈里面的数字是表示插头 (pin) 的编号
※ The number in a circle is pin no. of connector.

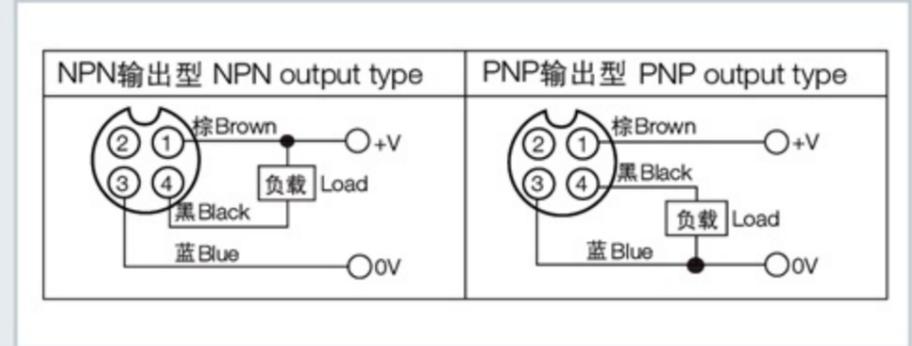
正确使用 Proper Usage

相互干扰 Mutual-interference

当把两个以上的接近开关一起安装使用时，可能会发生相互干扰引起的误动作，在安装时请务必满足下表中所规定的尺寸要求进行安装。
When several proximity sensors are mounted close to one another a malfunction of the sensor may be caused due to mutual interference. Therefore, be sure to provide a minimum distance between the two sensors as below chart indicates.

连接器接线图 Wiring Diagram

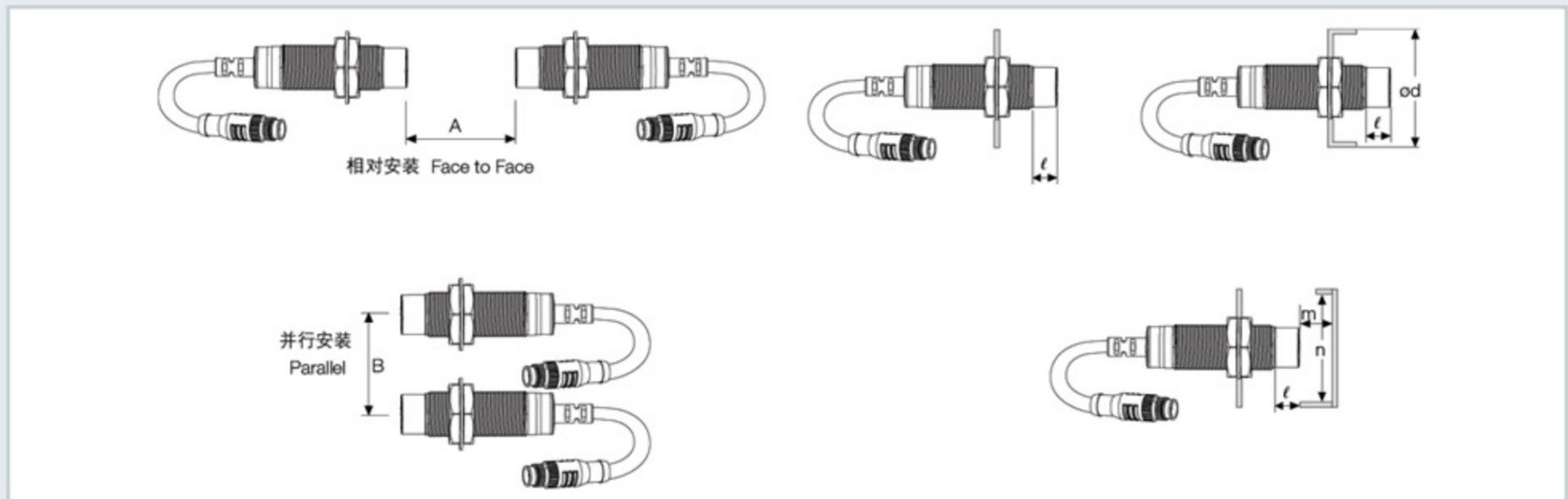
直流 3 线式 (标准型) DC 3-wire type (Standard type)



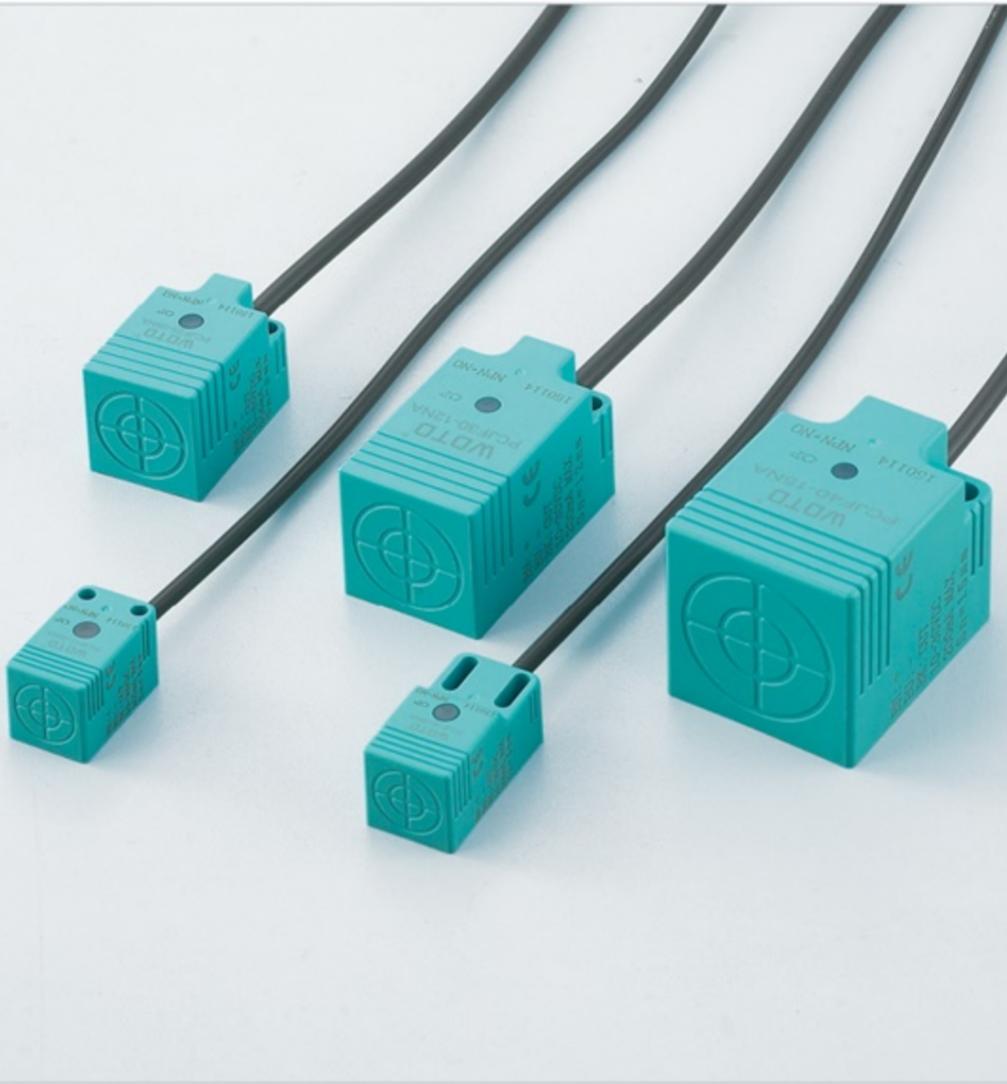
※ 结合接插头时，请使用 (0.39~0.49N·m 拧紧螺丝)。
※ 在发生震动的地方请用胶带缠住连接线缆后使用。
※ Please fasten the cleat of connector not to shown the thread. (0.39 to 0.49N.m)
※ Please fasten the vibration part with Teflon tape.

周围金属的影响 Influence by surrounding metals

当接近传感器周围有金属存在时，为防止复位不正常等误差发生，安装时请满足下表中所规定的尺寸要求进行安装。
When sensors are mounted on metallic panel, you must prevent the sensors from being affected by any metallic object except target. Therefore, be sure to provide a minimum distance as below chart indicates.



型号名 Model	PCJY12S-04R	PCJY12S-07R	PCJY18S-10R	PCJY18S-15R	PCJY30S-17R	PCJY30S-25R
项目 Item						
A	24	48	42	84	90	150
B	24	36	36	54	60	90
l	0	11	0	14	0	15
φ d	12	36	18	54	30	90
m	12	24	21	42	45	75
n	18	36	27	54	45	90



特点 Features

- 橙色标识代表标准型产品
- 浅绿色标识代表高端型产品
- Orange mark for standard type
- Light green mark for high-end type

- 内置浪涌保护, 电源反接保护和过流保护电路
- 寿命长, 高可靠性, 操作简单, 经济实惠
- 红色 LED 状态指示灯, 易于识别运行状态
- IP67 防护等级 (IEC 规格)
- 可以代替微动开关或限位开关广泛使用

- Inside surge protection, reverse polarity protection, overcurrent protection
- Long use-life cycle and high reliability, easy install, economic price
- Red LED status indication, easy to confirm work situation
- Protection structure IP67(IEC standard)
- Replaceable for limit switches

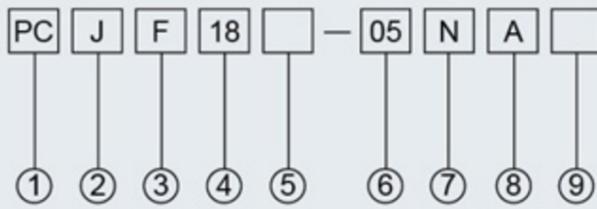


■ 橙色标准型
Orange



■ 浅绿色高端型
Light green

型号说明 Model Number Structure



项目 Item	代号 Code	说明 Description
① 公司代号 Company code	PC	公司代号 Company code
② 产品名称 Product name	J	电感式接近开关 Inductive proximity sensor
③ 外壳形状 Shape of shell	F	方形 Square
④ 尺寸代码 Dimension code	18	18= 方型 18 Square18
⑤ 产品类型 Product type	无 Without	无 Without = 高端型 High-end type (浅绿色壳体 Light green shell)
	E	E = 标准型 Standard type (橙色壳体 Orange shell)
⑥ 检测距离 Detection distance	05	05=5mm
⑦ 输出方式 Output mode	K	AC 二线 AC 2wires
	L	DC 二线 DC 2wires
	P	PNP 三线 PNP 3wires
	N	NPN 三线 NPN 3wires
⑧ 输出状态 Output state	A	常开 NO
	B	常闭 NC
	C	常开 + 常闭 NO+NC
⑨ 连接形式 Connection	无 Without	引线式 Without: Lead wire
	T	接插式 Plug-in
	R	配线引出接插式 Wiring leads Plug-in

规格 Specifications

直流 3 线式 DC 3wire type

型号名 Model	高端型 High-end type	PCJF17-05NA PCJF17-05NB PCJF17-05PA PCJF17-05PB	PCJF18-05NA PCJF18-05NB PCJF18-05PA PCJF18-05PB	PCJF25-08NA PCJF25-08NB PCJF25-08PA PCJF25-08PB	PCJF30-12NA PCJF30-12NB PCJF30-12PA PCJF30-12PB	PCJF40-15NA PCJF40-15NB PCJF40-15PA PCJF40-15PB
	标准型 Standard type	PCJF17E-05NA PCJF17E-05NB PCJF17E-05PA PCJF17E-05PB	PCJF18E-05NA PCJF18E-05NB PCJF18E-05PA PCJF18E-05PB	PCJF25E-08NA PCJF25E-08NB PCJF25E-08PA PCJF25E-08PB	PCJF30E-12NA PCJF30E-12NB PCJF30E-12PA PCJF30E-12PB	PCJF40E-15NA PCJF40E-15NB PCJF40E-15PA PCJF40E-15PB
检测距离 Sensing distance	5mm		5mm	8mm	12mm	15mm
应差距离 Hysteresis	检测距离的 10% 以下 Max. 10% of sensing distance					
标准检测物 Standard sensing target	18 × 18 × 1mm (铁 Iron)	25 × 25 × 1mm (铁 Iron)	30 × 30 × 1mm (铁 Iron)	40 × 40 × 1mm (铁 Iron)	60 × 60 × 1mm (铁 Iron)	
设定距离 Setting distance	0~3.5mm	0~3.5mm	0~5.5mm	0~7.5mm	0~12.5mm	
电源 (使用电压范围) Power supply (Operating voltage)	12-24VDC (10-30VDC)					
漏电流 Leakage current	10mA 以下 Max.10mA					
应答频率 (※1) Response frequency (※1)	500Hz	500Hz	350Hz	250Hz	100Hz	
残留电压 Residual voltage	1.0V 以下 Max. 1.0V					
温度的影响 Affection by Temp.	在 -25~+70℃ 温度范围内 +20℃ 时的检测距离的 ± 10% 以内 Max. ± 10% for sensing distance at ambient temperature 20℃					
控制输出 Control output	200mA 以下 Max. 200mA					
绝缘阻抗 Insulation resistance	50MΩ 以上 (500VDC 为基准) Min. 50MΩ (at 500VDC megger)					
耐电压 Dielectric strength	1500VAC 50/60Hz 1 分钟 1500VAC 50/60Hz for 1minute					
耐振动 Vibration	10~55Hz(周期 1 分钟) 振幅 1mm X, Y, Z 各方向 2 小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours					
耐冲击 Shock	500m/s ² (50G) X, Y, Z 各方向 3 次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times					
显示灯 Indicator	动作指示灯 (红色 LED) Operation indicator(red LED)					
使用周围温度 Ambient temperature	-25~+70℃ (未结冰状态 No icing)					
储存温度 Storage temperature	-30~+80℃ (未结冰状态 No icing)					
使用周围湿度 Ambient humidity	35~95%RH (未结露状态 No condensation)					
保护电路 Protection circuit	浪涌保护电路, 电源反接保护电路, 过载 & 短路保护电路 Surge protection circuit, Overcurrent protection circuit, Reverse polarity protection circuit					
连接线缆 Cable	高端型 High-end type	φ 3.8, 3P, 2m		φ 4.8, 3P, 2m		
		AWG22, 芯线直径:0.1mm, 芯线数:25, 绝缘皮外径: φ 1.25mm) AWG22, Core diameter: 0.1mm, Number of cores: 25, Insulator diameter: φ 1.25		AWG22, 芯线直径:0.1mm, 芯线数:30, 绝缘皮外径: φ 1.25mm) AWG22, Core diameter: 0.1mm, Number of cores: 30, Insulator diameter: φ 1.25		
	标准型 Standard type	φ 3.8, 3P, 1.5m		φ 4.8, 3P, 1.5m		
		AWG22, 芯线直径:0.1mm, 芯线数:25, 绝缘皮外径: φ 1.25mm) AWG22, Core diameter: 0.1mm, Number of cores: 25, Insulator diameter: φ 1.25		AWG22, 芯线直径:0.1mm, 芯线数:30, 绝缘皮外径: φ 1.25mm) AWG22, Core diameter: 0.1mm, Number of cores: 30, Insulator diameter: φ 1.25		
材质 Material	外壳: ABS, 一般型线缆 (深灰色): 聚氯乙烯 (PVC) Case: ABS, Standard cable(Dark Grey): Polyvinyl chloride(PVC)					
防护等级 Protection	IP67					

(※1) 开关动作的应答频率为平均值。测定条件使用标准检测物, 检测物的间距为标准检测物的 2 倍, 设定距离为检测距离的 1/2。

※ 标准产品和 IEC 标准的功能和规格是一样的。

(※1): The response frequency is the average value. The standard sensing target is used and the width is set as 2 times of the standard sensing target, 1/2 of the sensing distance for the distance.

规格 Specifications

直流 2 线式 DC 2-wire type

型号名 Model	高端型 High-end type	PCJF17-05LA PCJF17-05LB	PCJF18-05LA PCJF18-05LB	PCJF25-08LA PCJF25-08LB	PCJF30-12LA PCJF30-12LB	PCJF40-15LA PCJF40-15LB
	标准型 Standard type	PCJF17E-05LA	PCJF18E-05LA	PCJF25E-08LA	PCJF30E-12LA	PCJF40E-15LA
检测距离 Sensing distance	5mm 5mm 8mm 12mm 15mm					
应差距离 Hysteresis	检测距离的 10% 以下 Max. 10% of sensing distance					
标准检测物 Standard sensing target	18 × 18 × 1mm (铁 Iron)		25 × 25 × 1mm (铁 Iron)	30 × 30 × 1mm (铁 Iron)	40 × 40 × 1mm (铁 Iron)	60 × 60 × 1mm (铁 Iron)
设定距离 Setting distance	0~3.5mm		0~3.5mm	0~5.5mm	0~7.5mm	0~12.5mm
电源 (使用电压范围) Power supply (Operating voltage)	12-24VDC (10-30VDC)					
漏电流 Leakage current	0.6mA 以下 Max.0.6mA					
应答频率 (※1) Response frequency (※1)	500Hz		500Hz	350Hz	250Hz	100Hz
残留电压 Residual voltage	3.5V 以下 Max. 3.5V					
温度的影响 Affection by Temp.	在 -25~+70℃ 温度范围内 +20℃ 时的检测距离的 ± 10% 以内 Max. ± 10% for sensing distance at ambient temperature 20℃					
控制输出 Control output	200mA 以下 Max. 200mA					
绝缘阻抗 Insulation resistance	50MΩ 以上 (500VDC 为基准) Min. 50MΩ (at 500VDC megger)					
耐电压 Dielectric strength	1500VAC 50/60Hz 1 分钟 1500VAC 50/60Hz for 1minute					
耐振动 Vibration	10~55Hz(周期 1 分钟) 振幅 1mm X, Y, Z 各方向 2 小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours					
耐冲击 Shock	500m/s ² (50G) X, Y, Z 各方向 3 次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times					
显示灯 Indicator	动作指示灯 (红色 LED) Operation indicator(red LED)					
使用周围温度 Ambient temperature	-25~+70℃ (未结冰状态 No icing)					
储存温度 Storage temperature	-30~+80℃ (未结冰状态 No icing)					
使用周围湿度 Ambient humidity	35~95%RH (未结露状态 No condensation)					
保护电路 Protection circuit	内置浪涌保护, 电源反接保护电路, 过流保护电路 Surge protection circuit, Reverse polarity protection circuit, Overcurrent protection circuit					
连接线缆 Cable	高端型 High-end type	φ 3.8, 2P, 2m		φ 4.8, 2P, 2m		
		AWG22, 芯线直径 :0.1mm, 芯线数 :25, 绝缘皮外径 : φ 1.25mm) AWG22, Core diameter: 0.1mm, Number of cores: 25, Insulator diameter: φ 1.25		AWG22, 芯线直径 :0.1mm, 芯线数 :30, 绝缘皮外径 : φ 1.25mm) AWG22, Core diameter: 0.1mm, Number of cores: 30, Insulator diameter: φ 1.25		
	标准型 Standard type	φ 3.8, 2P, 1.5m		φ 4.8, 2P, 1.5m		
		AWG22, 芯线直径 :0.1mm, 芯线数 :25, 绝缘皮外径 : φ 1.25mm) AWG22, Core diameter: 0.1mm, Number of cores: 25, Insulator diameter: φ 1.25		AWG22, 芯线直径 :0.1mm, 芯线数 :30, 绝缘皮外径 : φ 1.25mm) AWG22, Core diameter: 0.1mm, Number of cores: 30, Insulator diameter: φ 1.25		
材质 Material	外壳: ABS, 一般型线缆 (深灰色): 聚氯乙烯 (PVC) Case: ABS, Standard cable(Dark Grey): Polyvinyl chloride(PVC)					
防护等级 Protection	IP67					

(※1) 开关动作的应答频率为平均值。测定条件使用标准检测物, 检测物的间距为标准检测物的 2 倍, 设定距离为检测距离的 1/2。

※ 标准产品和 IEC 标准的功能和规格是一样的。

(※1): The response frequency is the average value. The standard sensing target is used and the width is set as 2 times of the standard sensing target, 1/2 of the sensing distance for the distance.

规格 Specifications

交流 2 线式 AC 2-wire type

型号名 Model	高端型 High-end type	PCJF25-08KA PCJF25-08KB	PCJF30-12KA PCJF30-12KB	PCJF40-15KA PCJF40-15KB
	标准型 Standard type	PCJF25E-08KA PCJF25E-08KB	PCJF30E-12KA PCJF30E-12KB	PCJF40E-15KA PCJF40E-15KB
检测距离 Sensing distance		8mm	12mm	15mm
应差距离 Hysteresis	检测距离的 10% 以下 Max. 10% of sensing distance			
标准检测物 Standard sensing target		30 × 30 × 1mm (铁 Iron)	40 × 40 × 1mm (铁 Iron)	60 × 60 × 1mm (铁 Iron)
设定距离 Setting distance		0~5.5mm	0~7.5mm	0~12.5mm
电源 (使用电压范围) Power supply (Operating voltage)	24-250VAC			
漏电流 Leakage current	10mA 以下 Max. 10mA			
应答频率 (*1) Response frequency (*1)	20Hz			
残留电压 Residual voltage	10V 以下 Max. 10V			
温度的影响 Affection by Temp.	在 -25~+70℃ 温度范围内 +20℃ 时的检测距离的 ± 10% 以内 Max. ± 10% for sensing distance at ambient temperature 20℃			
控制输出 Control output	200mA 以下 Max. 200mA			
绝缘阻抗 Insulation resistance	50MΩ 以上 (500VDC 为基准) Min. 50MΩ (at 500VDC megger)			
耐电压 Dielectric strength	1500VAC 50/60Hz 1 分钟 1500VAC 50/60Hz for 1minute			
耐振动 Vibration	10~55Hz (周期 1 分钟) 振幅 1mm X, Y, Z 各方向 2 小时 1mm amplitude at frequency of 10 to 55Hz (for 1 min.) in each of X, Y, Z directions for 2 hours			
耐冲击 Shock	500m/s ² (50G) X, Y, Z 各方向 3 次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times			
显示灯 Indicator	动作指示灯 (红色 LED) Operation indicator (red LED)			
使用周围温度 Ambient temperature	-25~+70℃ (未结冰状态 No icing)			
储存温度 Storage temperature	-30~+80℃ (未结冰状态 No icing)			
使用周围湿度 Ambient humidity	35~95%RH (未结露状态 No condensation)			
保护电路 Protection circuit	浪涌保护电路 Surge protection circuit			
连接线缆 Cable	高端型 High-end type	φ 4.8, 2P, 2m (AWG22, 芯线直径: 0.1mm, 芯线数: 30, 绝缘皮外径: φ 1.25mm) (AWG22, Core diameter: 0.1mm, Number of cores: 30, Insulator diameter: φ 1.25)		
	标准型 Standard type	φ 4.8, 2P, 1.5m (AWG22, 芯线直径: 0.1mm, 芯线数: 30, 绝缘皮外径: φ 1.25mm) (AWG22, Core diameter: 0.1mm, Number of cores: 30, Insulator diameter: φ 1.25)		
材质 Material	外壳: ABS, 一般型线缆 (深灰色): 聚氯乙烯 (PVC) Case: ABS, Standard cable (Dark Grey): Polyvinyl chloride (PVC)			
防护等级 Protection	IP67			

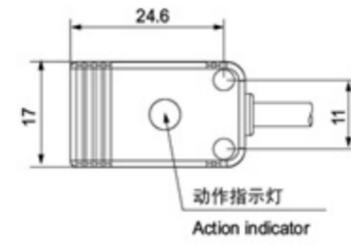
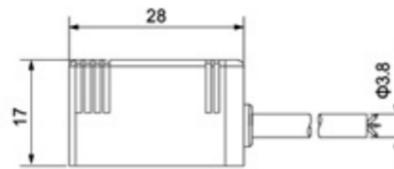
(*1) 开关动作的应答频率为平均值。测定条件使用标准检测物, 检测物的间距为标准检测物的 2 倍, 设定距离为检测距离的 1/2。

* 标准产品和 IEC 标准的功能和规格是一样的。

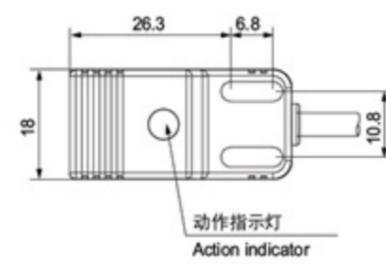
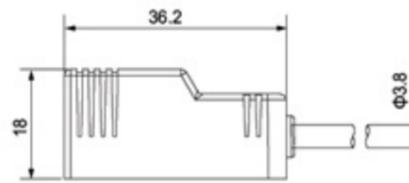
(*1): The response frequency is the average value. The standard sensing target is used and the width is set as 2 times of the standard sensing target, 1/2 of the sensing distance for the distance.

外观和尺寸 Appearance and Dimension

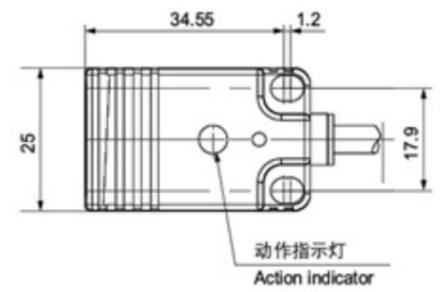
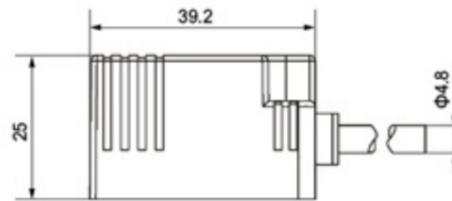
PCJF17-05



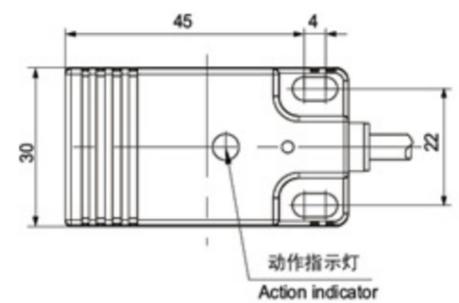
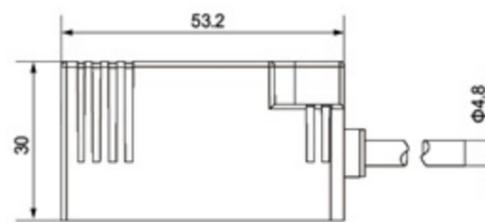
PCJF18-05



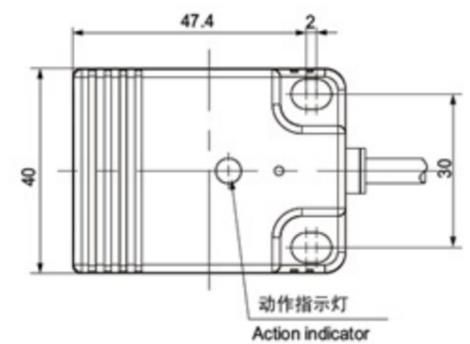
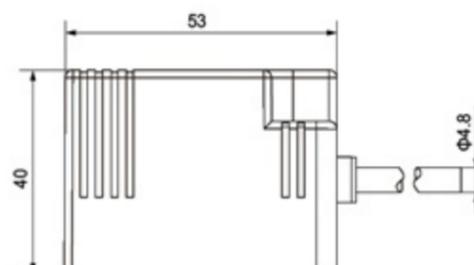
PCJF25-08



PCJF30-12

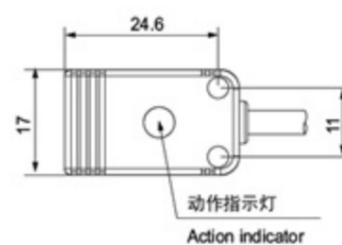
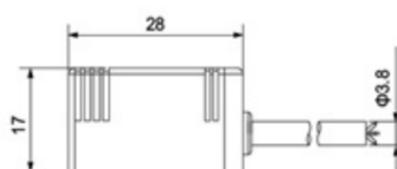


PCJF40-15

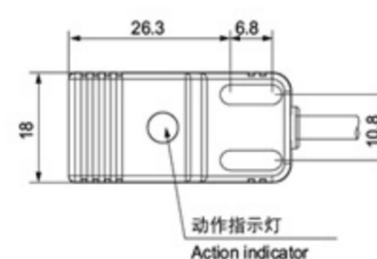
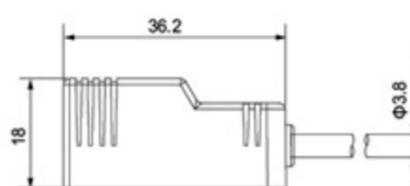


外观和尺寸 Appearance and Dimension

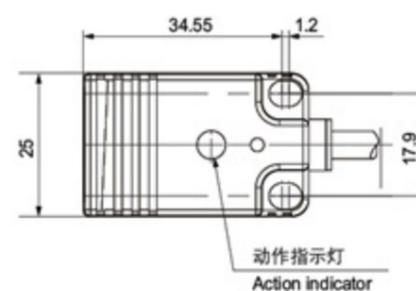
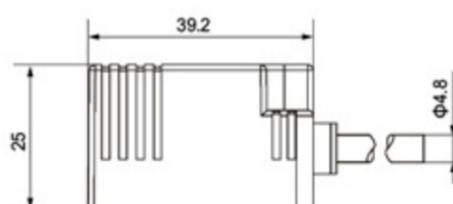
PCJF17E-05



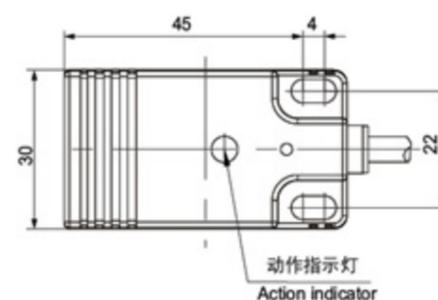
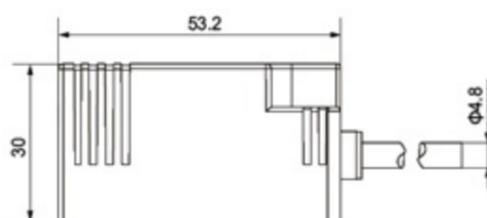
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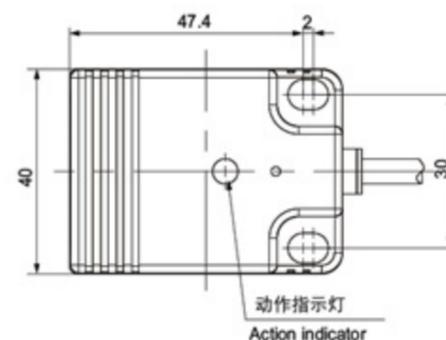
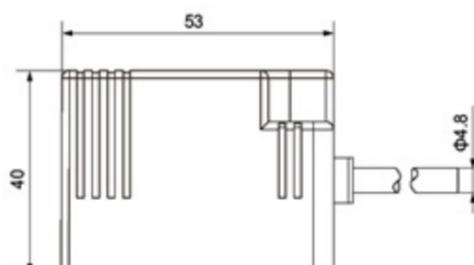
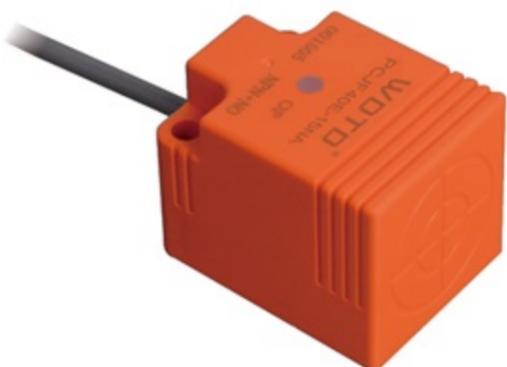
PCJF25E-08



PCJF30E-12

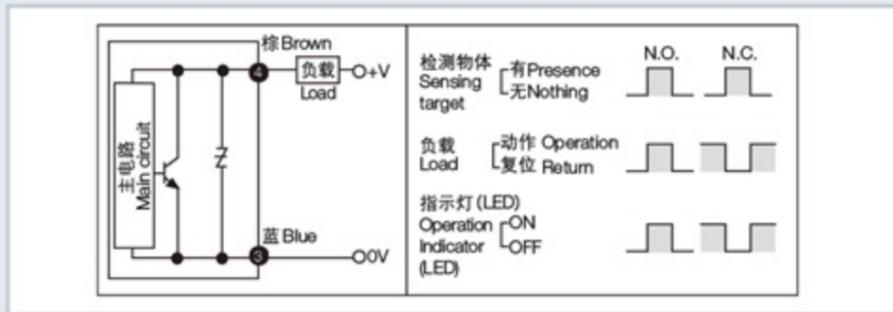


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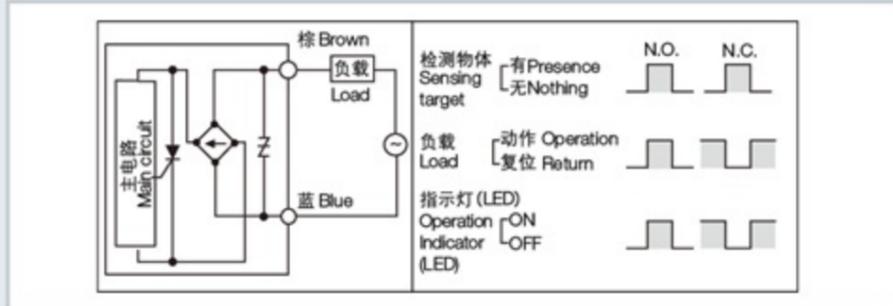


输出电路 Control Output Diagram

直流 2 线式 DC 2-wire type

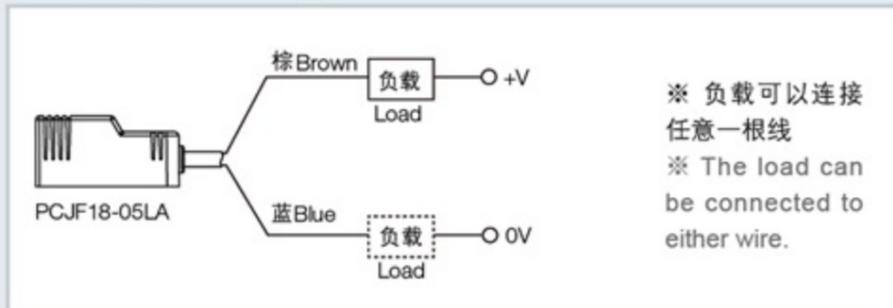


交流 2 线式 AC 2-wire type

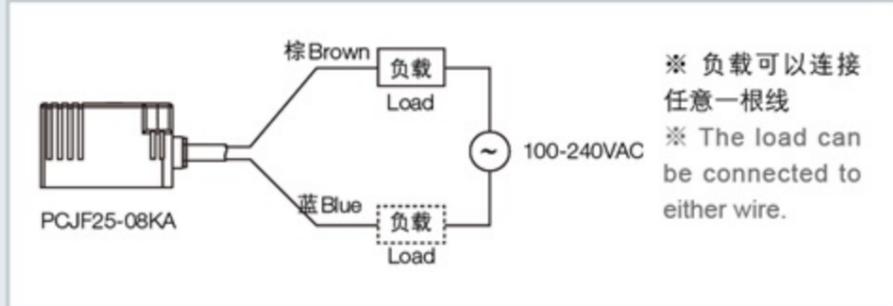


连接 Connections

直流 2 线式 DC 2-wire type



交流 2 线式 AC 2-wire type



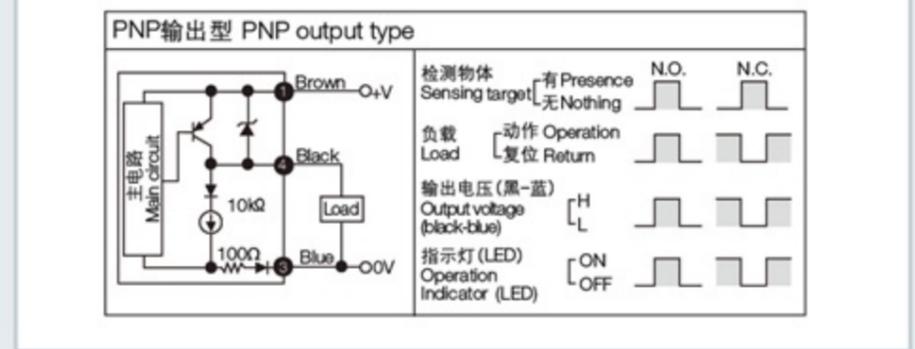
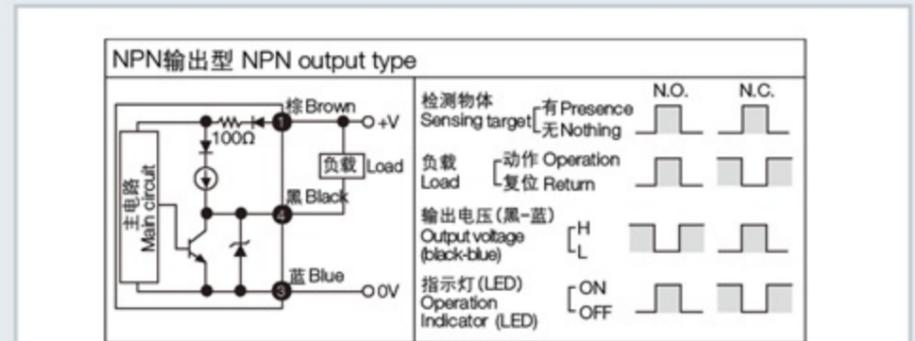
正确使用 Proper Usage

相互干扰 Mutual-interference

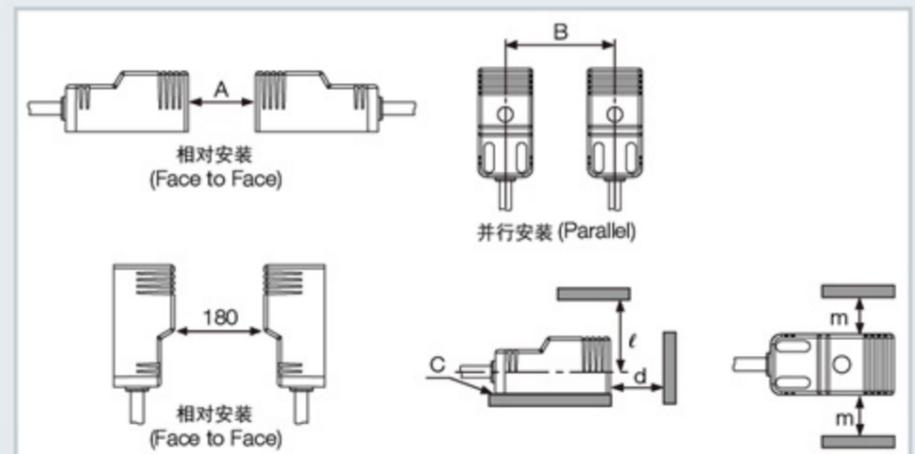
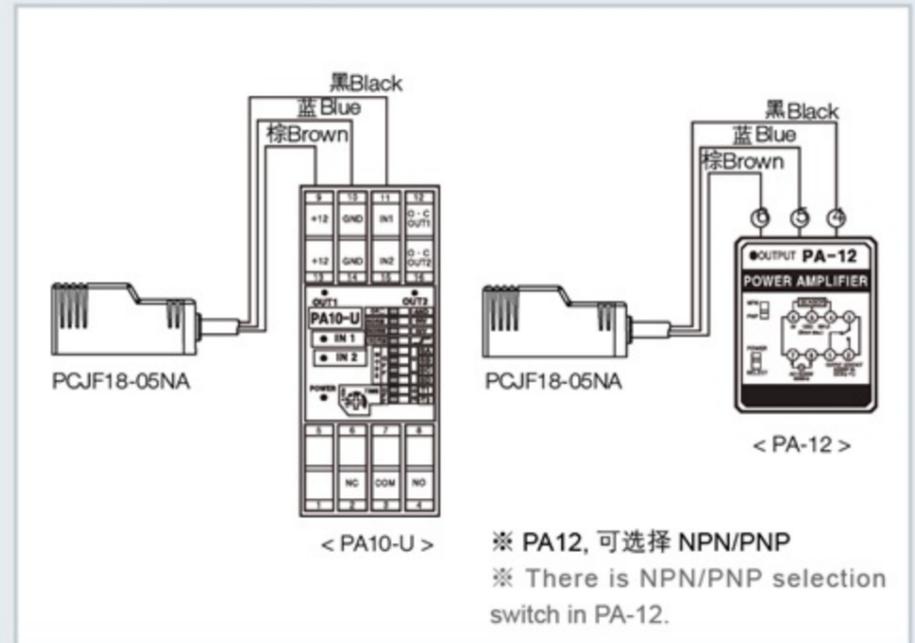
当几个接近传感器安装在一起, 会发生相互干扰引起传感器故障, 一般两个传感器之间的间隔的距离如图

When several proximity sensors are mounted close to one another a malfunction of the may be caused due to mutual interference. Therefore, be sure to provide a minimum distance between the two sensors as below chart indicates.

直流 3 线式 DC 3-wire type



直流 3 线式 DC 3-wire type



型号名 Model 项目 Item	PCJF17-05	PCJF18-05	PCJF25-08	PCJF30-12	PCJF40-15
	PCJF17E-05	PCJF18E-05	PCJF25E-08	PCJF30E-12	PCJF40E-15
A	30	48	30	60	120
B	36	40	40	50	70
C	5	5	5	5	5
φ d	15	24	15	30	60
l	24	33	25	30	45
m	18	20	20	25	35

PCJF 扁平形接近开关 (高端型)

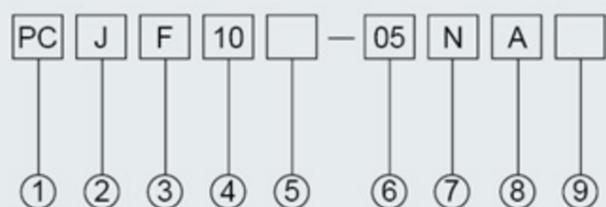
Proximity Sensor Flat Type (High-end type)



特点 Features

- 内置浪涌保护, 电源反接保护和过流保护电路
- 寿命长, 高可靠性, 操作简单, 经济实惠
- 红色 LED 状态指示灯, 易于识别运行状态
- IP67 防护等级 (IEC 规格)
- 可以代替微动开关或限位开关广泛使用
- Inside surge protection, reverse polarity protection, overcurrent protection
- Long use-life cycle and high reliability, easy install, economic price
- Red LED status indication, easy to confirm work situation
- Protection structure IP67(IEC standard)
- Replaceable for limit switches

型号说明 Model Number Structure



项目 Item	代号 Code	说明 Description
① 公司代号 Company code	PC	公司代号 Company code
② 产品名称 Product name	J	电感式接近开关 Inductive proximity sensor
③ 外壳形状 Shape of shell	F	方形 Square
④ 尺寸代码 Dimension code	10	10= 方形 10 Square10
⑤ 产品类型 Product type	无 Without	高端型 High-end type
⑦ 输出方式 Output mode	K	AC 二线 AC 2wires
	L	DC 二线 DC 2wires
	P	PNP 三线 PNP 3wires
	N	NPN 三线 NPN 3wires
⑧ 输出状态 Output state	A	常开 NO
	B	常闭 NC
	C	常开 + 常闭 NO+NC
⑨ 连接形式 Connection	无 Without	引线式 Without: Lead wire
	T	接插式 Plug-in
	R	配线引出接插式 Wiring leads Plug-in

规格 Specifications

型号名 Model	PCJF10-05LA PCJF10-05NA PCJF10-05NB PCJF10-05PA PCJF10-05PB	PCJF11-06LA PCJF11-06NA PCJF11-06NB PCJF11-06PA PCJF11-06PB	PCJF12-07LA PCJF12-07NA PCJF12-07NB PCJF12-07PA PCJF12-07PB
检测距离 Sensing distance	5mm	6mm	7mm
应差距离 Hysteresis	检测距离的 10% 以下 Max. 10% of sensing distance		
标准检测物 Standard sensing target	25 × 25 × 1mm (铁 Iron)		
设定距离 Setting distance	0~3.5mm	0~3.5mm	0~5.5mm
电源 (使用电压范围) Power supply (Operating voltage)	12-24VDC (10-30VDC)		
漏电流 Leakage current	10mA 以下 Max.10mA		
应答频率 (※1) Response frequency (※1)	500Hz	500Hz	400Hz
残留电压 Residual voltage	DC 二线 : 3.5V 以下 Max. 3.5V DC 三线 : 1V 以下 Max. 1.0V		
温度的影响 Affection by Temp.	在 -25~+70℃ 温度范围内 +20℃ 时的检测距离的 ± 10% 以内 Max. ± 10% for sensing distance at ambient temperature 20℃		
控制输出 Control output	200mA 以下 Max. 200mA		
绝缘阻抗 Insulation resistance	50MΩ 以上 (500VDC 为基准) Min. 50MΩ (at 500VDC megger)		
耐电压 Dielectric strength	1500VAC 50/60Hz1 分钟 1500VAC 50/60Hz for 1minute		
耐振动 Vibration	10~55Hz(周期 1 分钟) 振幅 1mm X, Y, Z 各方向 2 小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours		
耐冲击 Shock	500m/s ² (50G) X, Y, Z 各方向 3 次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times		
显示灯 Indicator	动作指示灯 (红色 LED) Operation indicator(red LED)		
使用周围温度 Ambient temperature	-25~+70℃ (未结冰状态 No icing)		
储存温度 Storage temperature	-30~+80℃ (未结冰状态 No icing)		
使用周围湿度 Ambient humidity	35~95%RH (未结露状态 No condensation)		
保护电路 Protection circuit	浪涌保护电路, 过载 & 短路保护电路, 过电流保护电路, Surge protection circuit, Reverse polarity protection circuit, Overcurrent protection circuit		
连接线缆 Cable	φ 3.8, 2P, 2m φ 3.8, 3P, 2m (AWG22, 芯线直径 :0.1mm, 芯线数 :25, 绝缘皮外径 : φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores: 25, Insulator diameter: φ 1.25)		
材质 Material	外壳: PBT, 一般型线缆 (灰色): 聚氯乙烯 (PVC) Case: PBT, Standard cable(Grey): Polyvinyl chloride(PVC)		
防护等级 Protection	IP67		

(※1) 开关动作的应答频率为平均值。测定条件使用标准检测物, 检测物的间距为标准检测物的 2 倍, 设定距离为检测距离的 1/2。

※ 标准产品和 IEC 标准的功能和规格是一样的。

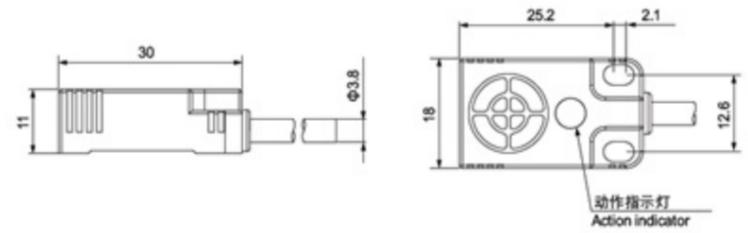
(※1): The response frequency is the average value. The standard sensing target is used and the width is set as 2 times of the standard sensing target, 1/2 of the sensing distance for the distance.

PCJF 扁平形接近开关 (高端型)

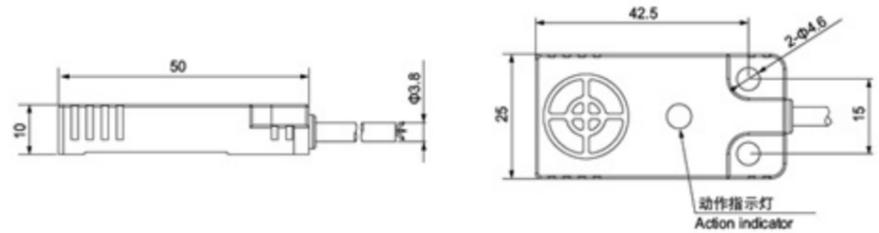
Proximity Sensor Flat Type (High-end type)

外观和尺寸 Appearance and Dimension

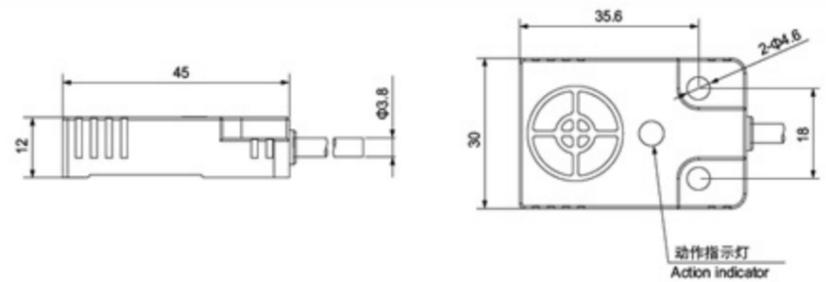
PCJF10-05



PCJF11-06

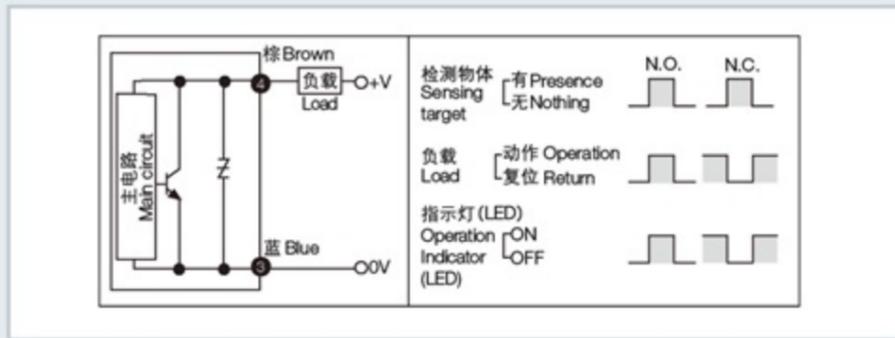


PCJF12-07

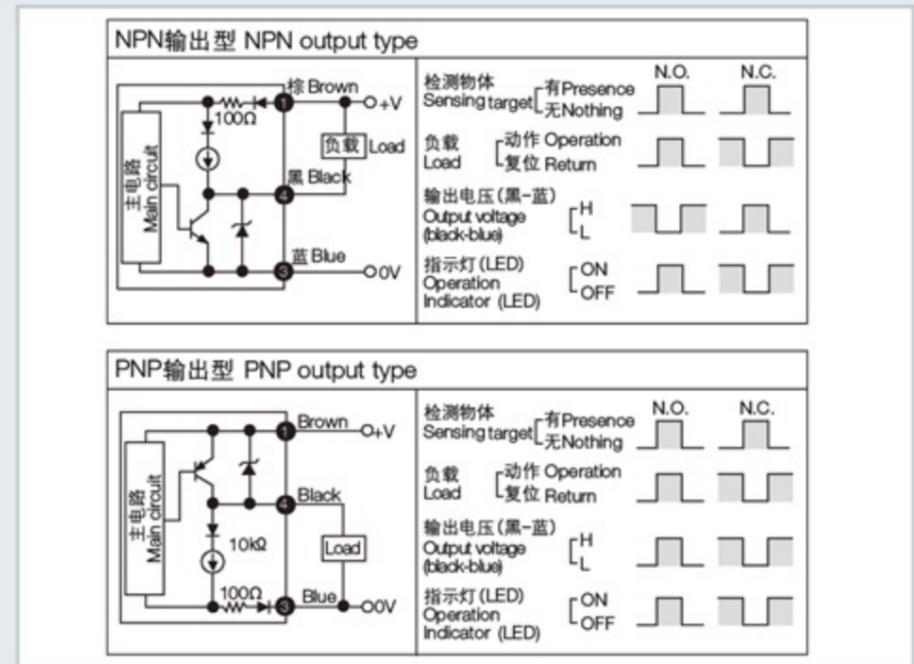


输出电路 Control Output Diagram

直流 2 线式 DC 2-wire type



直流 3 线式 DC 3-wire type

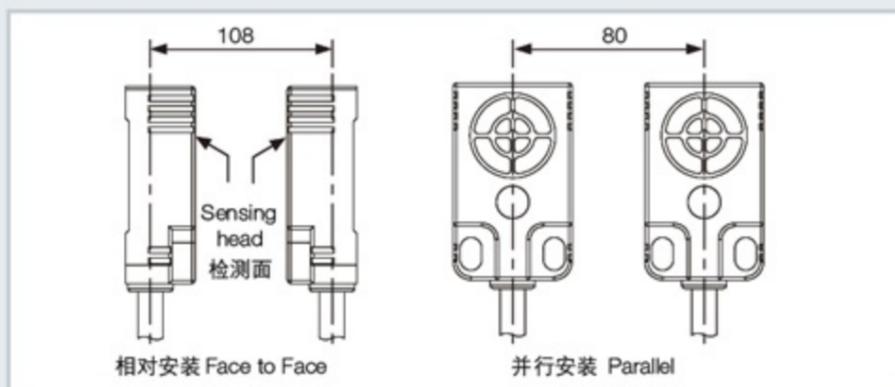


正确使用 Proper Usage

相互干扰 Mutual-interference

当几个接近传感器安装在一起，会发生相互干扰引起传感器故障，一般两个传感器之间的间隔距离如图

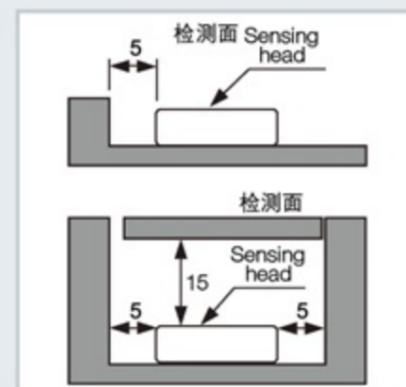
When several proximity sensors are mounted close to one another a malfunction of the sensor may be caused due to mutual interference. Therefore, be sure to provide a minimum distance between the two sensors as below chart indicates.



周围金属的影响 Influence by surrounding metals

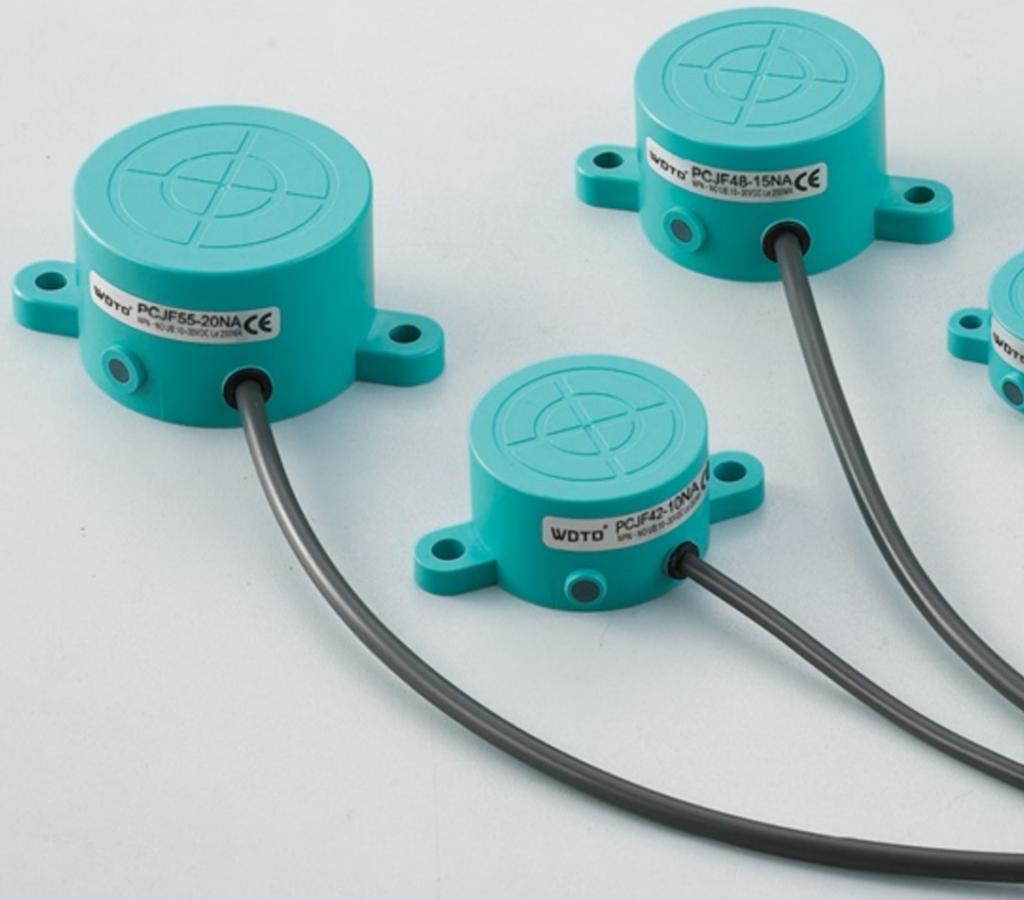
当传感器安装在金属面板时，你必须要预防被检测物以外的金属物体，因此，要设定最小的间隔距离如图

When sensors are mounted on metallic panel, you must prevent the sensors from being affected by any metallic object except target. Therefore, be sure to provide a minimum distance as below chart indicates.



※ 接近传感器与周围金属高度相等时
※ When the height between the proximity sensor and surrounding metals is same.

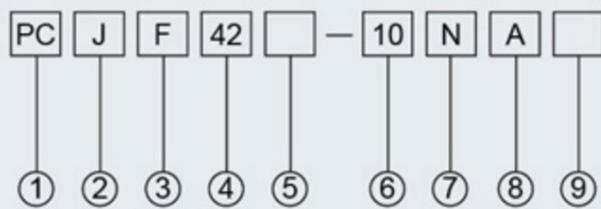
※ 接近传感器与周围金属高度相等时
※ When the height between the proximity sensor and surrounding metals is different.



特点 Features

- 内置浪涌保护, 电源反接保护和过流保护电路
- 寿命长, 高可靠性, 操作简单, 经济实惠
- 红色 LED 状态指示灯, 易于识别运行状态
- IP67 防护等级 (IEC 规格)
- 可以代替微动开关或限位开关广泛使用
- Inside surge protection, reverse polarity protection, overcurrent protection
- Long use-life cycle and high reliability, easy install, economic price
- Red LED status indication, easy to confirm work situation
- Protection structure IP67(IEC standard)
- Replaceable for limit switches

型号说明 Model Number Structure



项目 Item	代号 Code	说明 Description
① 公司代号 Company code	PC	公司代号 Company code
② 产品名称 Product name	J	电感式接近开关 Inductive proximity sensor
③ 外壳形状 Shape of shell	F	方形 Square
④ 尺寸代码 Dimension code	42	42=Φ42
⑤ 产品类型 Product type	无 Without	高端型 High-end type
⑥ 检测距离 Detection distance	10	10=10mm
⑦ 输出方式 Output mode	K	AC 二线 AC 2wires
	L	DC 二线 DC 2wires
	P	PNP 三线 PNP 3wires
	N	NPN 三线 NPN 3wires
⑧ 输出状态 Output state	A	常开 NO
	B	常闭 NC
	C	常开 + 常闭 NO+NC
⑨ 连接形式 Connection	无 Without	引线式 Without: Lead wire
	T	接插式 Plug-in
	R	配线引出接插式 Wiring leads Plug-in

规格 Specifications

直流 3 线式 DC 3wire type

型号名 Model	PCJF36-07NA PCJF36-07NB PCJF36-07PA PCJF36-07PB	PCJF42-10NA PCJF42-10NB PCJF42-10PA PCJF42-10PB	PCJF48-15NA PCJF48-15NB PCJF48-15PA PCJF48-15PB	PCJF55-20NA PCJF55-20NB PCJF55-20PA PCJF55-20PB
检测距离 Sensing distance	7mm	10mm	15mm	20mm
应差距离 Hysteresis	检测距离的 10% 以下 Max. 10% of sensing distance			
标准检测物 Standard sensing target	50 × 50 × 1mm (铁 Iron)	55 × 55 × 1mm (铁 Iron)	60 × 60 × 1mm (铁 Iron)	80 × 80 × 1mm (铁 Iron)
设定距离 Setting distance	0~5.5mm	0~7.5mm	0~12.5mm	0~15.5mm
电源 (使用电压范围) Power supply (Operating voltage)	12-24VDC (10-30VDC)			
漏电流 Leakage current	10mA 以下 Max.10mA			
应答频率 (※1) Response frequency (※1)	300Hz	200Hz	100Hz	100Hz
残留电压 Residual voltage	1.0V 以下 Max. 1.0V			
温度的影响 Affection by Temp.	在 -25~+70℃ 温度范围内 +20℃ 时的检测距离的 ± 10% 以内 Max. ± 10% for sensing distance at ambient temperature 20℃			
控制输出 Control output	200mA 以下 Max. 200mA			
绝缘阻抗 Insulation resistance	50MΩ 以上 (500VDC 为基准) Min. 50MΩ (at 500VDC megger)			
耐电压 Dielectric strength	1500VAC 50/60Hz 1 分钟 1500VAC 50/60Hz for 1minute			
耐振动 Vibration	10~55Hz(周期 1 分钟) 振幅 1mm X, Y, Z 各方向 2 小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours			
耐冲击 Shock	500m/s ² (50G) X, Y, Z 各方向 3 次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times			
显示灯 Indicator	动作指示灯 (红色 LED) Operation indicator(red LED)			
使用周围温度 Ambient temperature	-25~+70℃ (未结冰状态 No icing)			
储存温度 Storage temperature	-30~+80℃ (未结冰状态 No icing)			
使用周围湿度 Ambient humidity	35~95%RH (未结露状态 No condensation)			
保护电路 Protection circuit	内置浪涌保护, 电源反接保护电路, 过流保护电路 Surge protection circuit, Reverse polarity protection circuit, Overcurrent protection circuit			
连接线缆 Cable	φ 3.8, 3P, 2m		φ 4.8, 3P, 2m	
	AWG22, 芯线直径 :0.1mm, 芯线数 :25, 绝缘皮外径 : φ 1.25mm) AWG22, Core diameter: 0.1mm, Number of cores: 25, Insulator diameter: φ 1.25		AWG22, 芯线直径 :0.1mm, 芯线数 :30, 绝缘皮外径 : φ 1.25mm) AWG22, Core diameter: 0.1mm, Number of cores: 30, Insulator diameter: φ 1.25	
材质 Material	外壳: PBT, 一般型线缆 (灰色): 聚氯乙烯 (PVC) Case: PBT, Standard cable(Grey): Polyvinyl chloride(PVC)			
防护等级 Protection	IP67			

(※1) 开关动作的应答频率为平均值。测定条件使用标准检测物, 检测物的间距为标准检测物的 2 倍, 设定距离为检测距离的 1/2。

※ 标准产品和 IEC 标准的功能和规格是一样的。

(※1): The response frequency is the average value. The standard sensing target is used and the width is set as 2 times of the standard sensing target, 1/2 of the sensing distance for the distance.

规格 Specifications

直流 2 线式 DC 2-wire type

型号名 Model	PCJF36-07LA PCJF36-07LB	PCJF42-10LA PCJF42-10LB	PCJF48-15LA PCJF48-15LB	PCJF55-20LA PCJF55-20LB
检测距离 Sensing distance	7mm	10mm	15mm	20mm
应差距离 Hysteresis	检测距离的 10% 以下 Max. 10% of sensing distance			
标准检测物 Standard sensing target	50 × 50 × 1mm (铁 Iron)	55 × 55 × 1mm (铁 Iron)	60 × 60 × 1mm (铁 Iron)	80 × 80 × 1mm (铁 Iron)
设定距离 Setting distance	0~5.5mm	0~7.5mm	0~12.5mm	0~15.5mm
电源 (使用电压范围) Power supply (Operating voltage)	12-24VDC (10-30VDC)			
漏电流 Leakage current	0.6mA 以下 Max.0.6mA			
应答频率 (※1) Response frequency (※1)	300Hz	200Hz	100Hz	100Hz
残留电压 Residual voltage	3.5V 以下 Max. 3.5V			
温度的影响 Affection by Temp.	在 -25~+70℃ 温度范围内 +20℃ 时的检测距离的 ± 10% 以内 Max. ± 10% for sensing distance at ambient temperature 20℃			
控制输出 Control output	200mA 以下 Max. 200mA			
绝缘阻抗 Insulation resistance	50MΩ 以上 (500VDC 为基准) Min. 50MΩ (at 500VDC megger)			
耐电压 Dielectric strength	1500VAC 50/60Hz1 分钟 1500VAC 50/60Hz for 1minute			
耐振动 Vibration	10~55Hz(周期 1 分钟) 振幅 1mm X, Y, Z 各方向 2 小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours			
耐冲击 Shock	500m/s ² (50G) X, Y, Z 各方向 3 次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times			
显示灯 Indicator	动作指示灯 (红色 LED) Operation indicator(red LED)			
使用周围温度 Ambient temperature	-25~+70℃ (未结冰状态 No icing)			
储存温度 Storage temperature	-30~+80℃ (未结冰状态 No icing)			
使用周围湿度 Ambient humidity	35~95%RH (未结露状态 No condensation)			
保护电路 Protection circuit	内置浪涌保护, 电源反接保护电路, 过流保护电路 Surge protection circuit, Reverse polarity protection circuit, Overcurrent protection circuit			
连接线缆 Cable	φ 3.8, 2P, 2m		φ 4.8, 2P, 2m	
	AWG22, 芯线直径 :0.1mm, 芯线数 :25, 绝缘皮外径 : φ 1.25mm) AWG22, Core diameter: 0.1mm, Number of cores: 25, Insulator diameter: φ 1.25		AWG22, 芯线直径 :0.1mm, 芯线数 :30, 绝缘皮外径 : φ 1.25mm) AWG22, Core diameter: 0.1mm, Number of cores: 30, Insulator diameter: φ 1.25	
材质 Material	外壳: PBT, 一般型线缆 (灰色): 聚氯乙烯 (PVC) Case: PBT, Standard cable(Grey): Polyvinyl chloride(PVC)			
防护等级 Protection	IP67			

(※1) 开关动作的应答频率为平均值。测定条件使用标准检测物, 检测物的间距为标准检测物的 2 倍, 设定距离为检测距离的 1/2。

※ 标准产品和 IEC 标准的功能和规格是一样的。

(※1): The response frequency is the average value. The standard sensing target is used and the width is set as 2 times of the standard sensing target, 1/2 of the sensing distance for the distance.

规格 Specifications

交流 2 线式 AC 2-wire type

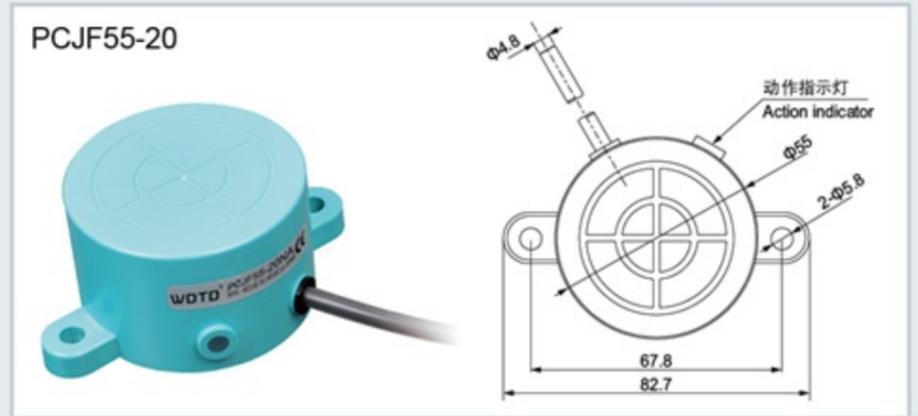
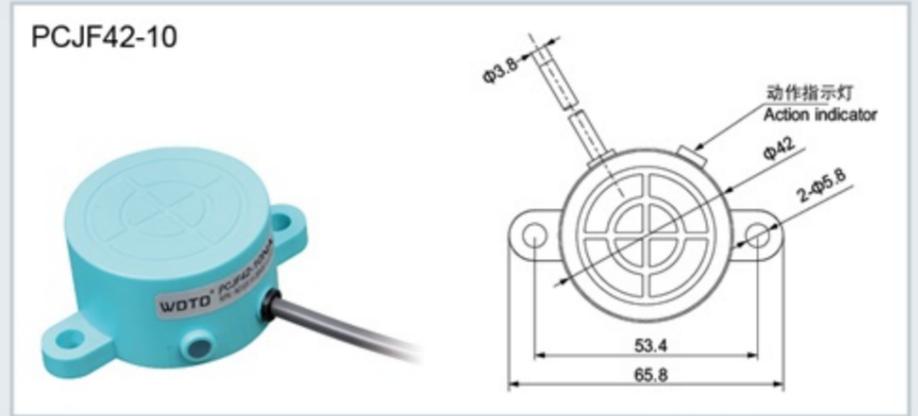
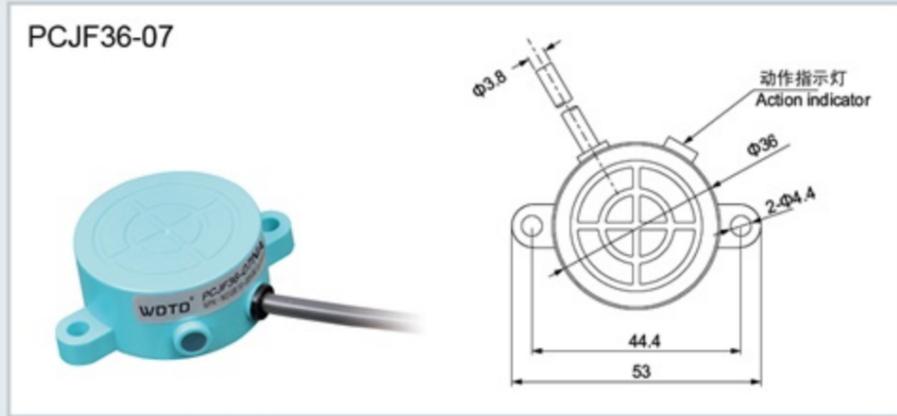
型号名 Model	PCJF42-10KA PCJF42-10KB	PCJF48-15KA PCJF48-15KB	PCJF55-20KA PCJF55-20KB
检测距离 Sensing distance	10mm	15mm	20mm
应差距离 Hysteresis	检测距离的 10% 以下 Max. 10% of sensing distance		
标准检测物 Standard sensing target	55 × 55 × 1mm (铁 Iron)	60 × 60 × 1mm (铁 Iron)	80 × 80 × 1mm (铁 Iron)
设定距离 Setting distance	0~7.5mm	0~12.5mm	0~15.5mm
电源 (使用电压范围) Power supply (Operating voltage)	24-250VAC		
漏电流 Leakage current	10mA 以下 Max. 10mA		
应答频率 (※1) Response frequency (※1)	20Hz		
残留电压 Residual voltage	10V 以下 Max. 10V		
温度的影响 Affection by Temp.	在 -25~+70℃ 温度范围内 +20℃ 时的检测距离的 ± 10% 以内 Max. ± 10% for sensing distance at ambient temperature 20℃		
控制输出 Control output	200mA 以下 Max. 200mA		
绝缘阻抗 Insulation resistance	50MΩ 以上 (500VDC 为基准) Min. 50MΩ (at 500VDC megger)		
耐电压 Dielectric strength	1500VAC 50/60Hz 1 分钟 1500VAC 50/60Hz for 1minute		
耐振动 Vibration	10~55Hz(周期 1 分钟) 振幅 1mm X, Y, Z 各方向 2 小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours		
耐冲击 Shock	500m/s ² (50G) X, Y, Z 各方向 3 次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times		
显示灯 Indicator	动作指示灯 (红色 LED) Operation indicator(red LED)		
使用周围温度 Ambient temperature	-25~+70℃ (未结冰状态 No icing)		
储存温度 Storage temperature	-30~+80℃ (未结冰状态 No icing)		
使用周围湿度 Ambient humidity	35~95%RH (未结露状态 No condensation)		
保护电路 Protection circuit	浪涌保护电路 Surge protection circuit		
连接线缆 Cable	φ 3.8, 2P, 2m (AWG22, 芯线直径 :0.1mm, 芯线数 :25, 绝缘皮外径 : φ 1.25mm) (AWG22, Core diameter: 0.1mm, Number of cores: 25, Insulator diameter: φ 1.25)	φ 4.8, 2P, 2m (AWG22, 芯线直径 :0.1mm, 芯线数 :30, 绝缘皮外径 : φ 1.25mm) (AWG22, Core diameter: 0.1mm, Number of cores: 30, Insulator diameter: φ 1.25)	
	材质 Material 外壳: PBT, 一般型线缆 (灰色): 聚氯乙烯 (PVC) Case: PBT, Standard cable(Grey): Polyvinyl chloride(PVC)		
防护等级 Protection	IP67		

(※1) 开关动作的应答频率为平均值。测定条件使用标准检测物, 检测物的间距为标准检测物的 2 倍, 设定距离为检测距离的 1/2。

※ 标准产品和 IEC 标准的功能和规格是一样的。

(※1): The response frequency is the average value. The standard sensing target is used and the width is set as 2 times of the standard sensing target, 1/2 of the sensing distance for the distance.

外观和尺寸 Appearance and Dimension

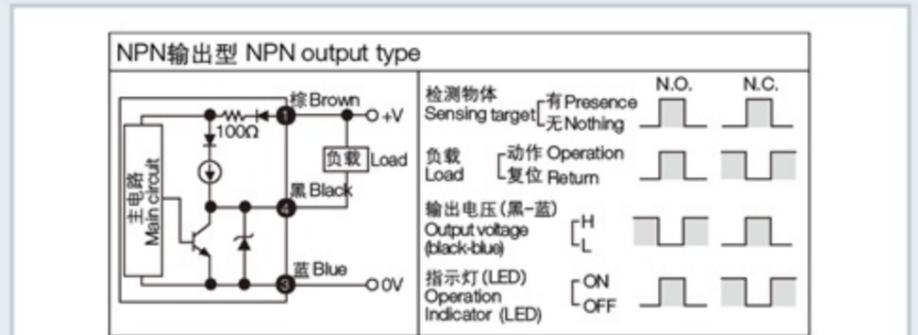


输出电路 Control Output Diagram

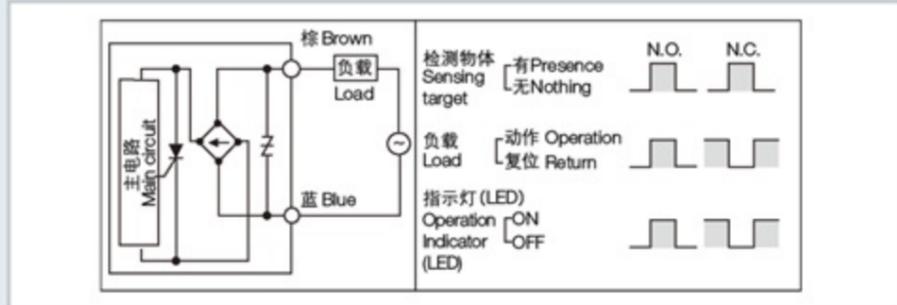
直流 2 线式 DC 2-wire type



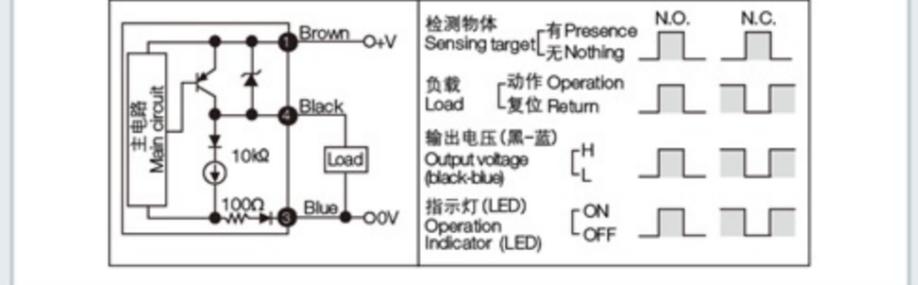
直流 3 线式 DC 3-wire type



交流 2 线式 AC 2-wire type

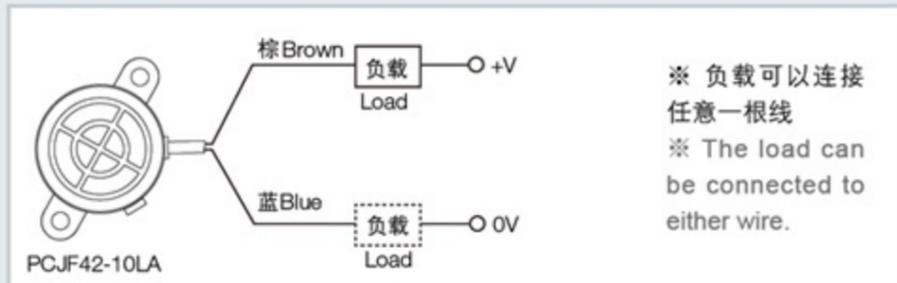


PNP输出型 PNP output type

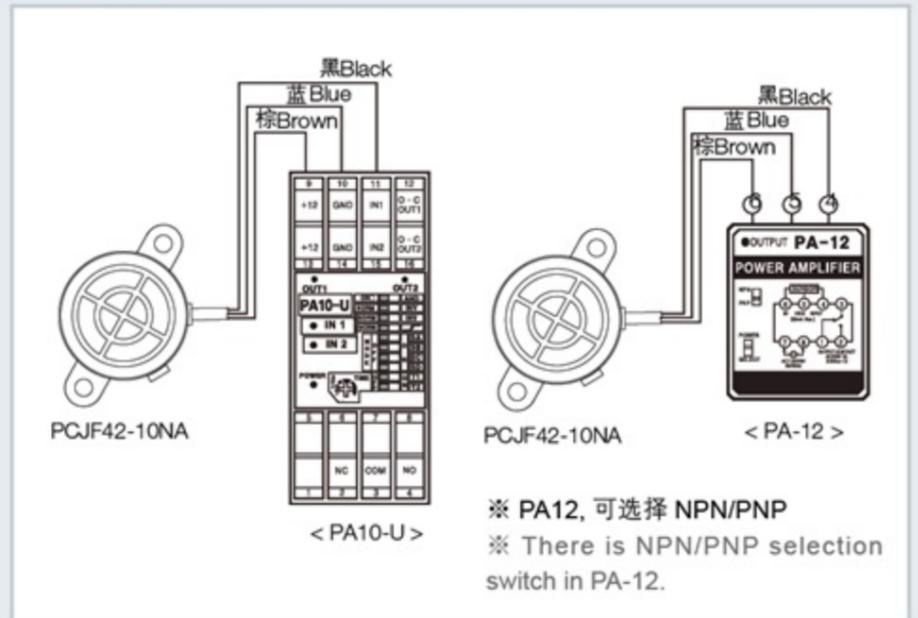


连接 Connections

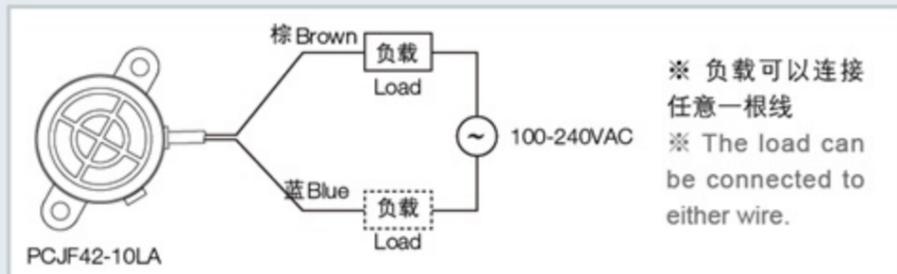
直流 2 线式 DC 2-wire type



直流 3 线式 DC 3-wire type



交流 2 线式 AC 2-wire type



PCJF 长距离检测型接近开关 (高端型)

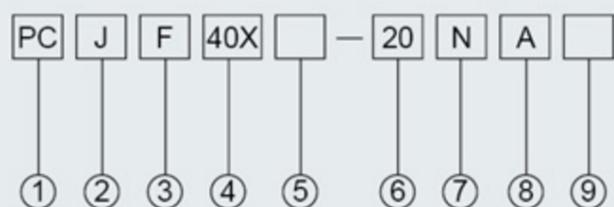
Long Distance Proximity Sensor Flat Type



特点 Features

- 长距离性型检测距离为 50mm
- 采用专用 IC 提高抗干扰能力
- 内置电源反接保护, 浪涌, 过电流保护电路
- 红色指示灯易于确认动作状态
- 防护等级 IP65(IEC 规格)
- Long sensing distance 50mm
- Exclusively designed IC for improving anti-jamming capability
- Inside surge protection, reverse polarity protection, overcurrent protection
- Red LED status indication, easy to confirm work situation
- Protection structure IP65(IEC standard)

型号说明 Model Number Structure



项目 Item	代号 Code	说明 Description
① 公司代号 Company code	PC	公司代号 Company code
② 产品名称 Product name	J	电感式接近开关 Inductive proximity sensor
③ 外壳形状 Shape of shell	F	方形 Square
④ 尺寸代码 Dimension code	40X	40X= 长方形 40 Rectangle 40
⑤ 产品类型 Product type	无 Without	高端型 High-end type
⑥ 检测距离 Detection distance	20	20=20mm
⑦ 输出方式 Output mode	K	AC 二线 AC 2wires
	L	DC 二线 DC 2wires
	P	PNP 三线 PNP 3wires
	N	NPN 三线 NPN 3wires
⑧ 输出状态 Output state	A	常开 NO
	B	常闭 NC
	C	常开 + 常闭 NO+NC
⑨ 连接形式 Connection	无 Without	引线式 Without: Lead wire
	T	接插式 Plug-in
	R	配线引出接插式 Wiring leads Plug-in

规格 Specifications

型号名 Model	PCJF40X-20LA PCJF40X-20LB PCJF40X-20NA PCJF40X-20NB PCJF40X-20PA PCJF40X-20PB PCJF40X-20KA PCJF40X-20KB	PCJF40Y-20LA PCJF40Y-20LB PCJF40Y-20NA PCJF40Y-20NB PCJF40Y-20PA PCJF40Y-20PB PCJF40Y-20KA PCJF40Y-20KB	PCJF80-50LA PCJF80-50LB PCJF80-50NA PCJF80-50NB PCJF80-50PA PCJF80-50PB PCJF80-50KA PCJF80-50KB
检测距离 Sensing distance	20mm	20mm	50mm
应差距离 Hysteresis	检测距离的 10% 以下 Max. 10% of sensing distance		
标准检测物 Standard sensing target	75 × 75 × 1mm (铁 Iron)	75 × 75 × 1mm (铁 Iron)	120 × 120 × 1mm (铁 Iron)
设定距离 Setting distance	0~15.5mm	0~15.5mm	0~40mm
电源 (使用电压范围) Power supply (Operating voltage)	10-30VDC / 24-250VAC		
漏电流 Leakage current	10mA 以下 Max.10mA		
应答频率 (※1) Response frequency (※1)	DC 200Hz / AC 20Hz		
残留电压 Residual voltage	DC 二线 : 3.5V 以下 Max. 3.5V DC 三线 : 1V 以下 Max. 1.0V AC 二线 : 10V 以下 Max. 10V		
温度的影响 Affection by Temp.	在 -25~+70℃ 温度范围内 +20℃ 时的检测距离的 ± 10% 以内 Max. ± 10% for sensing distance at ambient temperature 20℃		
控制输出 Control output	200mA 以下 Max. 200mA		
绝缘阻抗 Insulation resistance	50MΩ 以上 (500VDC 为基准) Min. 50MΩ (at 500VDC megger)		
耐电压 Dielectric strength	1500VAC 50/60Hz 1 分钟 1500VAC 50/60Hz for 1minute		
耐振动 Vibration	10~55Hz(周期 1 分钟) 振幅 1mm X, Y, Z 各方向 2 小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours		
耐冲击 Shock	500m/s ² (50G) X, Y, Z 各方向 3 次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times		
显示灯 Indicator	动作指示灯 (红色 LED) Operation indicator(red LED)		
使用周围温度 Ambient temperature	-25~+70℃ (未结冰状态 No icing)		
储存温度 Storage temperature	-30~+80℃ (未结冰状态 No icing)		
使用周围湿度 Ambient humidity	35~95%RH (未结露状态 No condensation)		
保护电路 Protection circuit	浪涌保护电路, 过载 & 短路保护电路, 过电流保护电路, Surge protection circuit, Reverse polarity protection circuit, Overcurrent protection circuit		
材质 Material	外壳: PBT, 一般型线缆 (灰色): 聚氯乙烯 (PVC) Case: PBT, Standard cable(Grey): Polyvinyl chloride(PVC)		
防护等级 Protection	IP65		

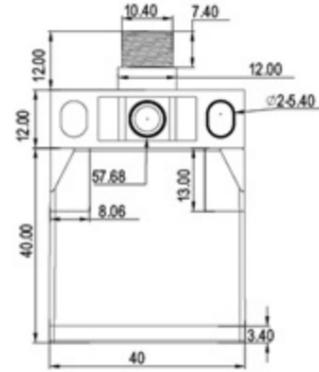
(※1) 开关动作的应答频率为平均值。测定条件使用标准检测物, 检测物的间距为标准检测物的 2 倍, 设定距离为检测距离的 1/2。

※ 标准产品和 IEC 标准的功能和规格是一样的。

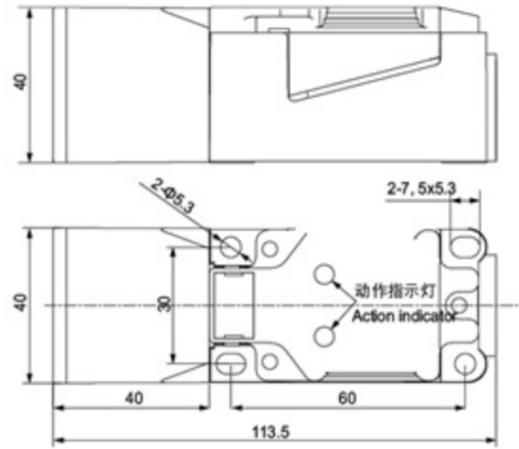
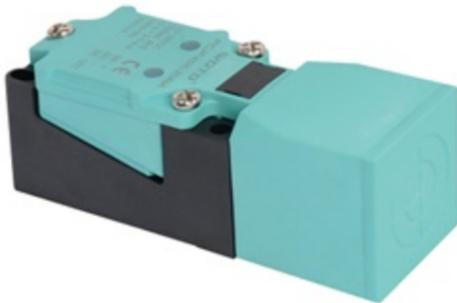
(※1): The response frequency is the average value. The standard sensing target is used and the width is set as 2 times of the standard sensing target, 1/2 of the sensing distance for the distance.

外观和尺寸 Appearance and Dimension

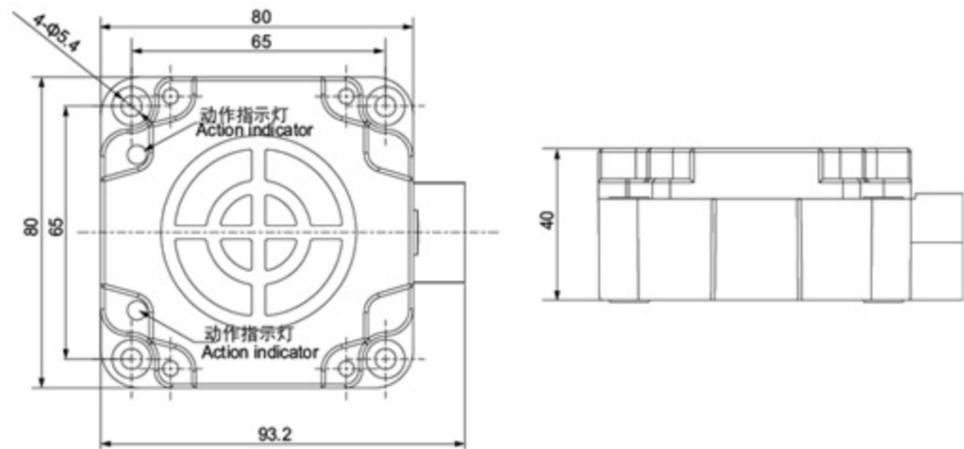
PCJF40Y-20



PCJF40X-20



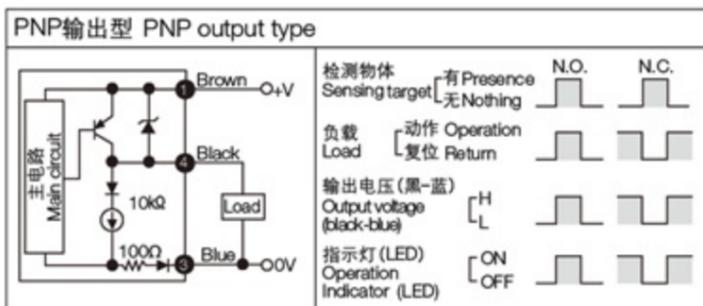
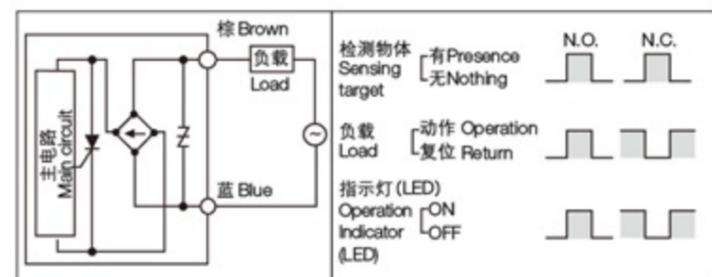
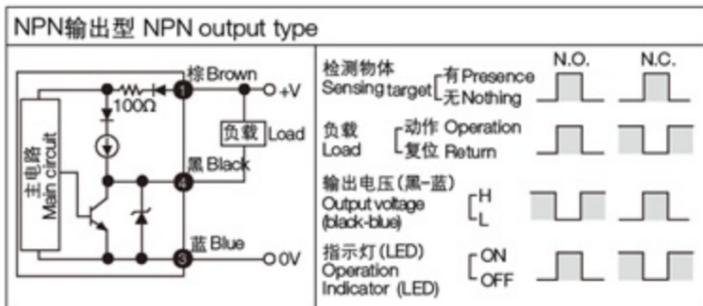
PCJF80-50



输出电路 Control Output Diagram

直流 3 线式 DC 3-wire type

交流 2 线式 AC 2-wire type

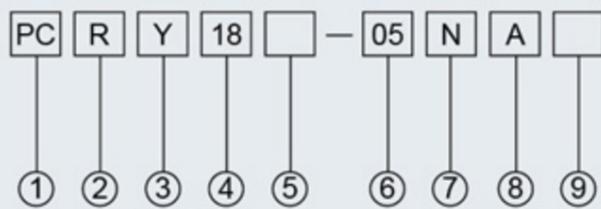




特点 Features

- 内置浪涌保护, 电源反接保护电路
- 寿命长, 高可靠性, 操作简单, 经济实惠
- 红色 LED 状态指示灯, 易于识别运行状态
- IP65 防护等级 (IEC 规格)
- Inside surge protection, reverse polarity protection
- Long use-life cycle and high reliability, easy install, economic price
- Red LED status indication, easy to confirm work situation
- Protection structure IP65(IEC standard)

型号说明 Model Number Structure



项目 Item	代号 Code	说明 Description
① 公司代号 Company code	PC	公司代号 Company code
② 产品名称 Product name	R	电容式接近开关 Capacitive proximity sensor
③ 外壳形状 Shape of shell	Y	圆柱形 Cylinder-shaped
④ 尺寸代码 Dimension code	18	18=M18
⑤ 产品类型 Product type	无 Without	高端型 High-end type
⑦ 输出方式 Output mode	K	AC 二线 AC 2wires
	L	DC 二线 DC 2wires
	P	PNP 三线 PNP 3wires
	N	NPN 三线 NPN 3wires
⑧ 输出状态 Output state	A	常开 NO
	B	常闭 NC
	C	常开 + 常闭 NO+NC
⑨ 连接形式 Connection	无 Without	引线式 Without: Lead wire
	T	接插式 Plug-in
	R	配线引出接插式 Wiring leads Plug-in

规格 Specifications

直流 3 线式 DC 3wire type

型号名 Model	PCRY12-02NA PCRY12-02NB PCRY12-02PA PCRY12-02PB	PCRY12-04NA PCRY12-04NB PCRY12-04PA PCRY12-04PB	PCRY18-05NA PCRY18-05NB PCRY18-05NC PCRY18-05PA PCRY18-05PB PCRY18-05PC	PCRY18-08NA PCRY18-08NB PCRY18-08NC PCRY18-08PA PCRY18-08PB PCRY18-08PC	PCRY30-10NA PCRY30-10NB PCRY30-10NC PCRY30-10PA PCRY30-10PB PCRY30-10PC	PCRY30-15NA PCRY30-15NB PCRY30-15NC PCRY30-15PA PCRY30-15PB PCRY30-15PC
检测距离 Sensing distance	2mm	4mm	5mm	8mm	10mm	15mm
应差距离 Hysteresis	检测距离的 10% 以下 Max. 10% of sensing distance					
设定距离 Setting distance	0~1.4mm	0~2.8mm	0~3.5mm	0~5.6mm	0~7mm	0~10.5mm
电源 (使用电压范围) Power supply (Operating voltage)	12-24VDC (10-30VDC)					
漏电流 Leakage current	10mA 以下 Max.10mA					
应答频率 (*1) Response frequency (*1)	50Hz					
残留电压 Residual voltage	1.0V 以下 Max. 1.0V					
温度的影响 Affection by Temp.	在 -25~+60℃ 温度范围内 +20℃ 时的检测距离的 ± 10% 以内 Max. ± 10% for sensing distance at ambient temperature 20℃					
控制输出 Control output	200mA 以下 Max. 200mA					
绝缘阻抗 Insulation resistance	50MΩ 以上 (500VDC 为基准) Min. 50MΩ (at 500VDC megger)					
耐电压 Dielectric strength	1500VAC 50/60Hz 1 分钟 1500VAC 50/60Hz for 1minute					
耐振动 Vibration	10~55Hz(周期 1 分钟) 振幅 1mm X, Y, Z 各方向 2 小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours					
耐冲击 Shock	500m/s ² (50G) X, Y, Z 各方向 3 次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times					
显示灯 Indicator	动作指示灯 (红色 LED) Operation indicator(red LED)					
使用周围温度 Ambient temperature	-25~+60℃ (未结冰状态 No icing)					
储存温度 Storage temperature	-30~+80℃ (未结冰状态 No icing)					
使用周围湿度 Ambient humidity	35~95%RH (未结露状态 No condensation)					
保护电路 Protection circuit	浪涌保护电路, 过流保护电路 Surge protection circuit, Overcurrent protection circuit					
材质 Material	外壳/螺母: ABS, 垫片: 塑料, 检测面: PBT, 一般线缆 (灰色): 聚氯乙烯 (PVC), 耐油性线缆 (黑色): 聚氯乙烯 (耐油强化型 PVC) Case/Nut: ABS, Washer: Plastic, Sensing surface: PBT, Standard cable(Gray): Polyvinyl chloride(PVC), Oil resistant cable(Black): Oil resistant Polyvinyl chloride(PVC)					
连接线缆 Cable	φ 3.8, 3P, 2m		φ 4.8, 3P,4P 2m			
	AWG22, 芯线直径 :0.1mm, 芯线数 :25, 绝缘皮外径 : φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores: 25, Insulator diameter: φ 1.25		AWG22, 芯线直径 :0.1mm, 芯线数 :30, 绝缘皮外径 : φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores: 30, Insulator diameter: φ 1.25			
防护等级 Protection	IP65					

规格 Specifications

交流 2 线式 AC 2wire type

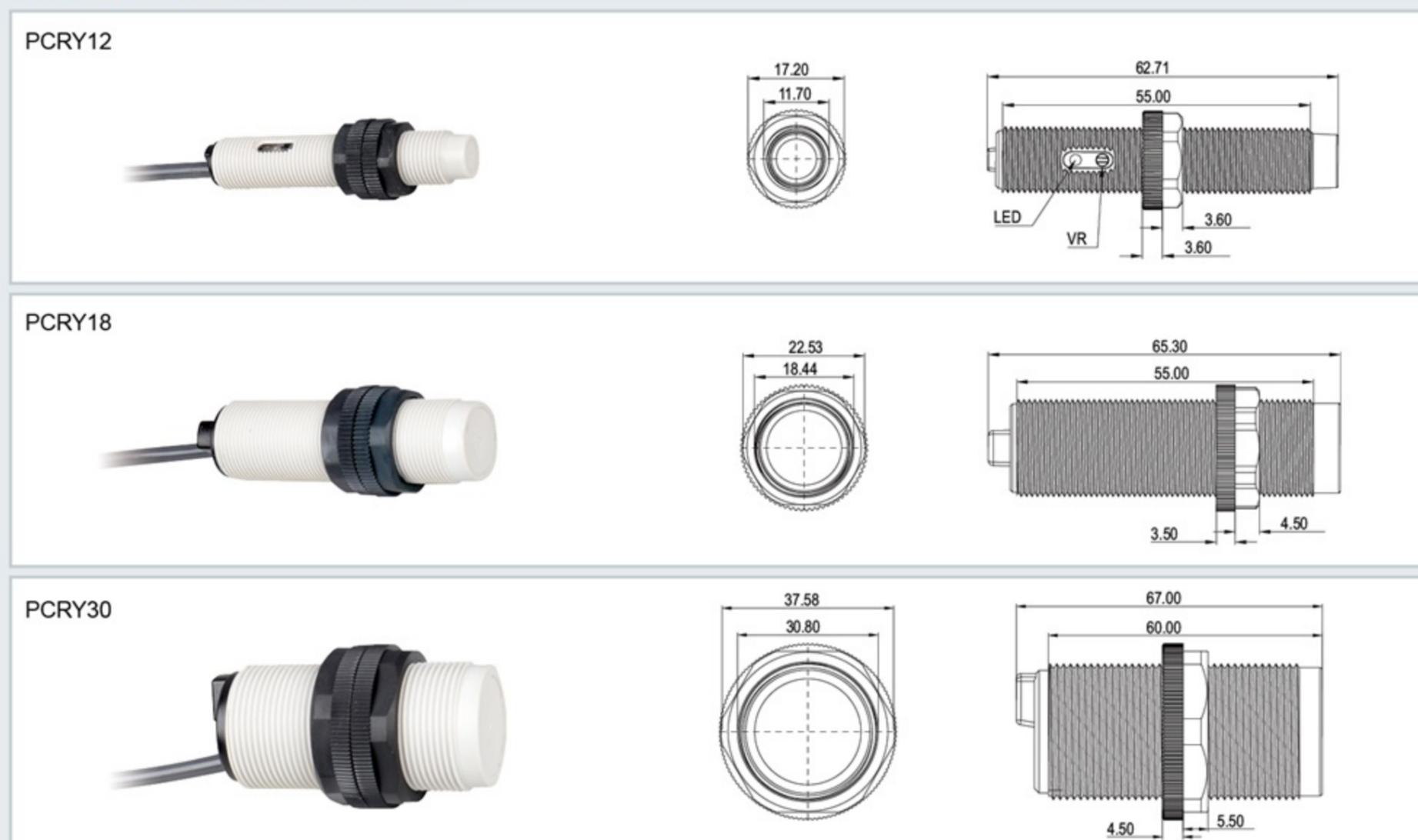
型号名 Model	PCRY18-05KA PCRY18-05KB	PCRY18-08KA PCRY18-08KB	PCRY30-10KA PCRY30-10KB	PCRY30-15KA PCRY30-15KB
检测距离 Sensing distance	5mm	8mm	10mm	15mm
应差距离 Hysteresis	检测距离的 10% 以下 Max. 10% of sensing distance			
设定距离 Setting distance	0~3.5mm	0~5.6mm	0~7mm	0~10.5mm
电源 (使用电压范围) Power supply (Operating voltage)	90-250VAC			
漏电流 Leakage current	10mA 以下 Max.10mA			

规格 Specifications

交流 2 线式 AC 2wire type

型号名 Model	PCRY18-05KA PCRY18-05KB	PCRY18-08KA PCRY18-08KB	PCRY30-10KA PCRY30-10KB	PCRY30-15KA PCRY30-15KB
应答频率 (*1) Response frequency (*1)	50Hz			
残留电压 Residual voltage	10V 以下 Max. 10V			
温度的影响 Affection by Temp.	在 -25~+60℃ 温度范围内 +20℃ 时的检测距离的 ± 10% 以内 Max. ± 10% for sensing distance at ambient temperature 20℃			
控制输出 Control output	200mA 以下 Max. 200mA			
绝缘阻抗 Insulation resistance	50MΩ 以上 (500VDC 为基准) Min. 50MΩ (at 500VDC megger)			
耐电压 Dielectric strength	1500VAC 50/60Hz 1 分钟 1500VAC 50/60Hz for 1minute			
耐振动 Vibration	10~55Hz(周期 1 分钟) 振幅 1mm X, Y, Z 各方向 2 小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours			
耐冲击 Shock	500m/s ² (50G) X, Y, Z 各方向 3 次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times			
显示灯 Indicator	动作指示灯 (红色 LED) Operation indicator(red LED)			
使用周围温度 Ambient temperature	-25~+60℃ (未结冰状态 No icing)			
储存温度 Storage temperature	-30~+80℃ (未结冰状态 No icing)			
使用周围湿度 Ambient humidity	35~95%RH (未结露状态 No condensation)			
保护电路 Protection circuit	浪涌保护电路 Surge protection circuit,			
材质 Material	外壳 / 螺母: ABS, 检测面: PBT, 一般线缆 (灰色): 聚氯乙烯 (PVC), 耐油性线缆 (黑色): 聚氯乙烯 (耐油强化型 PVC) Case/Nut: ABS, Sensing surface: PBT, Standard cable(Gray): Polyvinyl chloride(PVC), Oil resistant cable(Black): Oil resistant Polyvinyl chloride(PVC)			
连接线缆 Cable	φ 4.8, 2P, 2m AWG22, 芯线直径 :0.1mm, 芯线数 :30, 绝缘皮外径 : φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores: 30, Insulator diameter: φ 1.25			
防护等级 Protection	IP65			

外观和尺寸 Appearance and Dimension

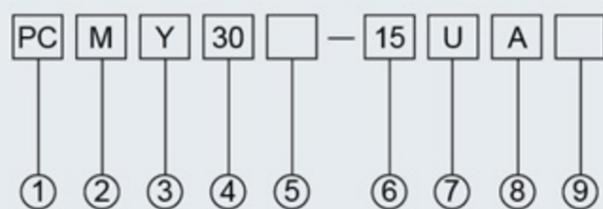




特点 Features

- 内置浪涌保护, 电源反接保护电路
- 寿命长, 高可靠性, 操作简单, 经济实惠
- 红色 LED 状态指示灯, 易于识别运行状态
- IP65 防护等级 (IEC 规格)
- Inside surge protection, reverse polarity protection
- Long use-life cycle and high reliability, easy install, economic price
- Red LED status indication, easy to confirm work situation
- Protection structure IP65(IEC standard)

型号说明 Model Number Structure

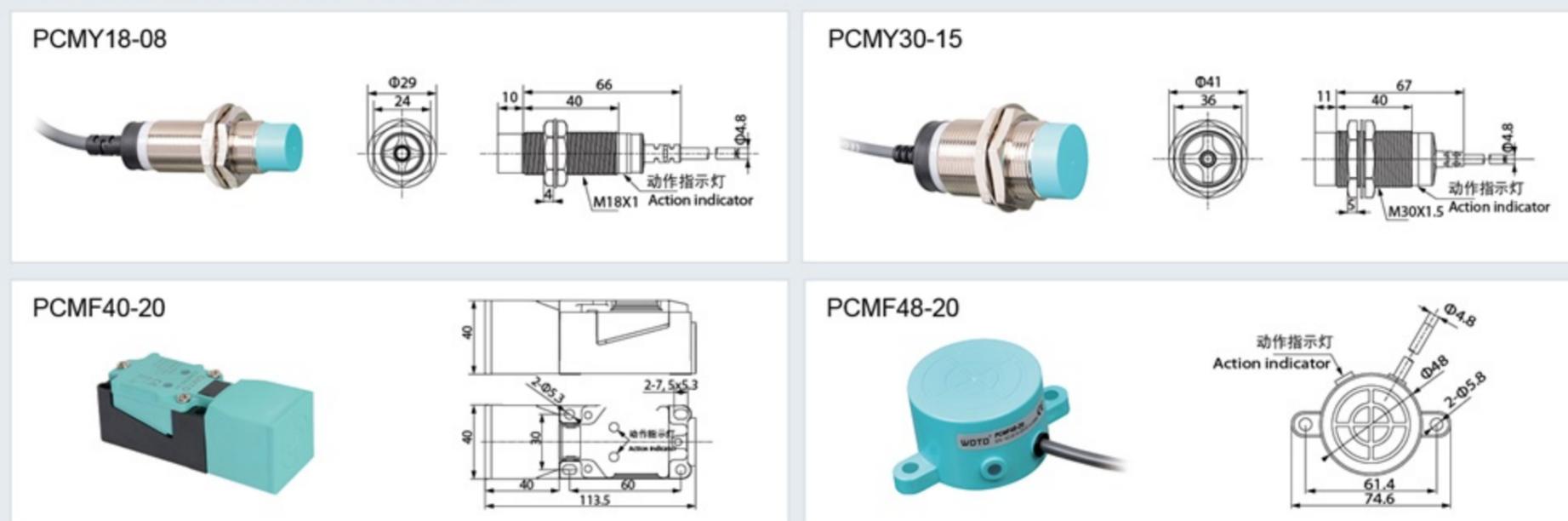


项目 Item	代号 Code	说明 Description
① 公司代号 Company code	PC	公司代号 Company code
② 产品名称 Product name	M	模拟量接近开关 Analog proximity sensor
③ 外壳形状 Shape of shell	Y	圆柱形 Cylinder-shaped
④ 尺寸代码 Dimension code	30	30=M30
⑤ 产品类型 Product type	无 Without	高端型 High-end type
	E	标准型 Standard type
⑥ 检测距离 Detection distance	15	15=15mm
⑦ 输出方式 Output mode	U	电压型 Voltage mode
	I	电流型 Current mode
⑧ 输出状态 Output state	A	常开 NO
	B	常闭 NC
	C	常开 + 常闭 NO+NC
⑨ 连接形式 Connection	无 Without	引线式 Without: Lead wire
	T	接插式 Plug-in
	R	配线引出接插式 Wiring leads Plug-in

规格 Specifications

型号名 Model	PCMY18-08U PCMY18-08I	PCMY30-15U PCMY30-15I	PCMF40-20U PCMF40-20I	PCMF48-20U PCMF48-20I
检测距离 Sensing distance	1-8mm	1-15mm	1-20mm	1-20mm
应差距离 Hysteresis	3-20%			
电源 (使用电压范围) Power supply (Operating voltage)	15-30VDC			
温度的影响 Affection by Temp.	在 -25~+70℃ 温度范围内 +20℃ 时的检测距离的 ± 10% 以内 Max. ± 10% for sensing distance at ambient temperature 20℃			
控制输出 Control output	电压输出 / 电流输出 Output voltage / Current output			
绝缘阻抗 Insulation resistance	50MΩ 以上 (500VDC 为基准) Min. 50MΩ (at 500VDC megger)			
耐电压 Dielectric strength	1500VAC 50/60Hz 1 分钟 1500VAC 50/60Hz for 1minute			
耐振动 Vibration	10~55Hz (周期 1 分钟) 振幅 1mm X, Y, Z 各方向 2 小时 1mm amplitude at frequency of 10 to 55Hz (for 1 min.) in each of X, Y, Z directions for 2 hours			
耐冲击 Shock	500m/s ² (50G) X, Y, Z 各方向 3 次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times			
显示灯 Indicator	动作指示灯 (红色 LED) Operation indicator (red LED)			
使用周围温度 Ambient temperature	-15~+55℃ (未结冰状态 No icing)			
储存温度 Storage temperature	-15~+55℃ (未结冰状态 No icing)			
使用周围湿度 Ambient humidity	35~95%RH (未结露状态 No condensation)			
保护电路 Protection circuit	浪涌保护电路, 过流保护电路 Surge protection circuit, Overcurrent protection circuit			
材质 Material	外壳 / 螺母: 塑料, 垫片: 塑料, 检测面: PBT, 一般线缆 (灰色): 聚氯乙烯 (PVC), 耐油性线缆 (黑色): 聚氯乙烯 (耐油强化型 PVC) Case/Nut: Plastic, Washer: Plastic, Sensing surface: PBT, Standard cable (Gray): Polyvinyl chloride (PVC), Oil resistant cable (Black): Oil resistant Polyvinyl chloride (PVC)			
连接线缆 Cable	φ 3.8, 2P, 2m		φ 4.8, 2P, 2m	
	AWG22, 芯线直径 :0.1mm, 芯线数 :25, 绝缘皮外径 : φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores: 25, Insulator diameter: φ 1.25)		AWG22, 芯线直径 :0.1mm, 芯线数 :30, 绝缘皮外径 : φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores: 30, Insulator diameter: φ 1.25)	
防护等级 Protection	IP65			

外观和尺寸 Appearance and Dimension

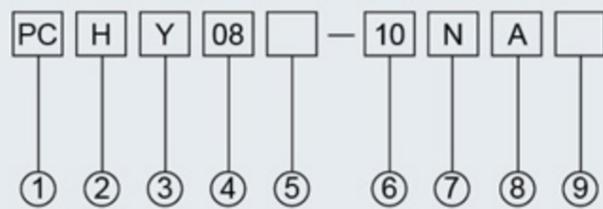




特点 Features

- 内置浪涌保护, 电源反接保护电路
- 寿命长, 高可靠性, 操作简单, 经济实惠
- 红色 LED 状态指示灯, 易于识别运行状态
- IP67 防护等级 (IEC 规格)
- Inside surge protection, reverse polarity protection
- Long use-life cycle and high reliability, easy install, economic price
- Red LED status indication, easy to confirm work situation
- Protection structure IP67(IEC standard)

型号说明 Model Number Structure

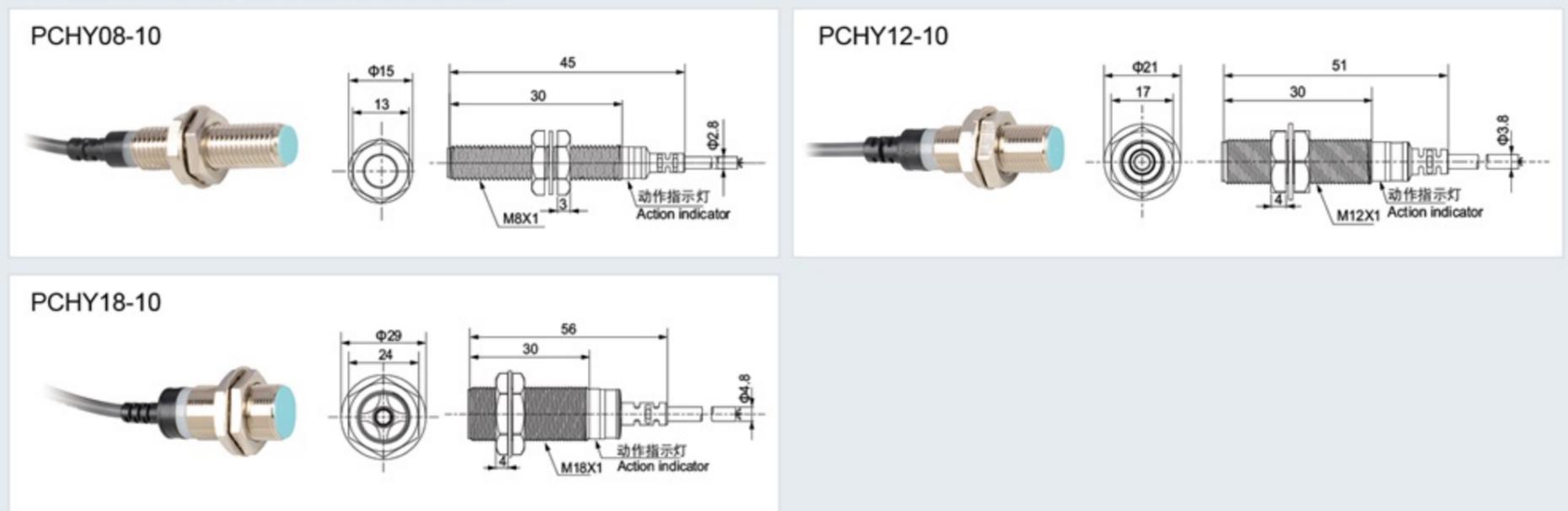


项目 Item	代号 Code	说明 Description
① 公司代号 Company code	PC	公司代号 Company code
② 产品名称 Product name	H	霍尔开关 Hall sensor
③ 外壳形状 Shape of shell	Y	圆柱形 Cylinder-shaped
④ 尺寸代码 Dimension code	08	08=M08
⑤ 产品类型 Product type	无 Without	高端型 High-end type
⑦ 输出方式 Output mode	P	PNP 三线 PNP 3wires
	N	NPN 三线 NPN 3wires
⑧ 输出状态 Output state	A	常开 NO
	B	常闭 NC
	C	常开 + 常闭 NO+NC
⑨ 连接形式 Connection	无 Without	引线式 Without: Lead wire
	T	接插式 Plug-in
	R	配线引出接插式 Wiring leads Plug-in

规格 Specifications

型号名 Model	PCHY08-10NA PCHY08-10NB	PCHY08-10PA PCHY08-10PB	PCHY12-10NA PCHY12-10NB PCHY12-10NC	PCHY12-10PA PCHY12-10PB PCHY12-10PC	PCHY18-10NA PCHY18-10NB PCHY18-10NC	PCHY18-10PA PCHY18-10PB PCHY18-10PC
检测距离 Sensing distance	10mm		10mm		10mm	
应差距离 Hysteresis	3-20%					
消耗电流 Consumption current	10mA 以下					
电源(使用电压范围)Power supply (Operating voltage)	6-36VDC					
响应频率 Response frequency	1000Hz					
残留电压 Residual voltage	1V 以下 Max. 1V					
温度的影响 Affection by Temp.	在 -25~+70℃ 温度范围内 +20℃ 时的检测距离的 ±10% 以内 Max. ±10% for sensing distance at ambient temperature 20℃					
控制输出 Control output	200mA 以下 Max. 200mA					
绝缘阻抗 Insulation resistance	50MΩ 以上 (500VDC 为基准) Min. 50MΩ (at 500VDC megger)					
耐电压 Dielectric strength	1500VAC 50/60Hz 1 分钟 1500VAC 50/60Hz for 1minute					
耐振动 Vibration	10~55Hz(周期 1 分钟) 振幅 1mm X, Y, Z 各方向 2 小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours					
耐冲击 Shock	500m/s ² (50G) X, Y, Z 各方向 3 次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times					
显示灯 Indicator	动作指示灯 (红色 LED) Operation indicator(red LED)					
使用周围温度 Ambient temperature	-15~+55℃ (未结冰状态 No icing)					
储存温度 Storage temperature	-15~+55℃ (未结冰状态 No icing)					
使用周围湿度 Ambient humidity	35~95%RH (未结露状态 No condensation)					
保护电路 Protection circuit	浪涌保护电路, 过流保护电路 Surge protection circuit, Overcurrent protection circuit					
材质 Material	外壳/螺母: 镀镍黄铜, 垫片: 镍镀铁, 检测面: PBT, 一般线缆(灰色): 聚氯乙烯(PVC), 耐油性线缆(黑色): 聚氯乙烯(耐油强化型 PVC) Case/Nut: Nickel plated Brass, Washer: Nickel plated Iron, Sensing surface: PBT, Standard cable(Gray): Polyvinyl chloride(PVC), Oil resistant cable(Black): Oil resistant Polyvinyl chloride(PVC)					
连接线缆 Cable	φ 2.8, 3P, 2m AWG22, 芯线直径: 0.1mm, 芯线数: 22, 绝缘皮外径: φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores: 22, Insulator diameter: φ 1.25)	φ 3.8, 3P, 4P 2m AWG22, 芯线直径: 0.1mm, 芯线数: 25, 绝缘皮外径: φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores: 25, Insulator diameter: φ 1.25)	φ 4.8, 3P, 4P 2m AWG22, 芯线直径: 0.1mm, 芯线数: 30, 绝缘皮外径: φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores: 30, Insulator diameter: φ 1.25)			
防护等级 Protection	IP67					

外观和尺寸 Appearance and Dimension

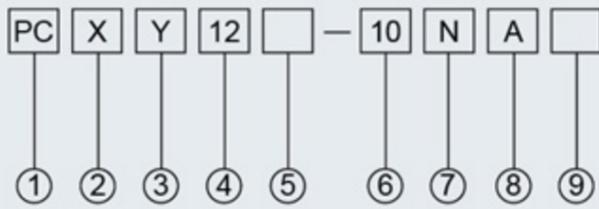




特点 Features

- 内置浪涌保护, 电源反接保护电路
- 寿命长, 高可靠性, 操作简单, 经济实惠
- 红色 LED 状态指示灯, 易于识别运行状态
- IP67 防护等级 (IEC 规格)
- Inside surge protection, reverse polarity protection
- Long use-life cycle and high reliability, easy install, economic price
- Red LED status indication, easy to confirm work situation
- Protection structure IP67(IEC standard)

型号说明 Model Number Structure

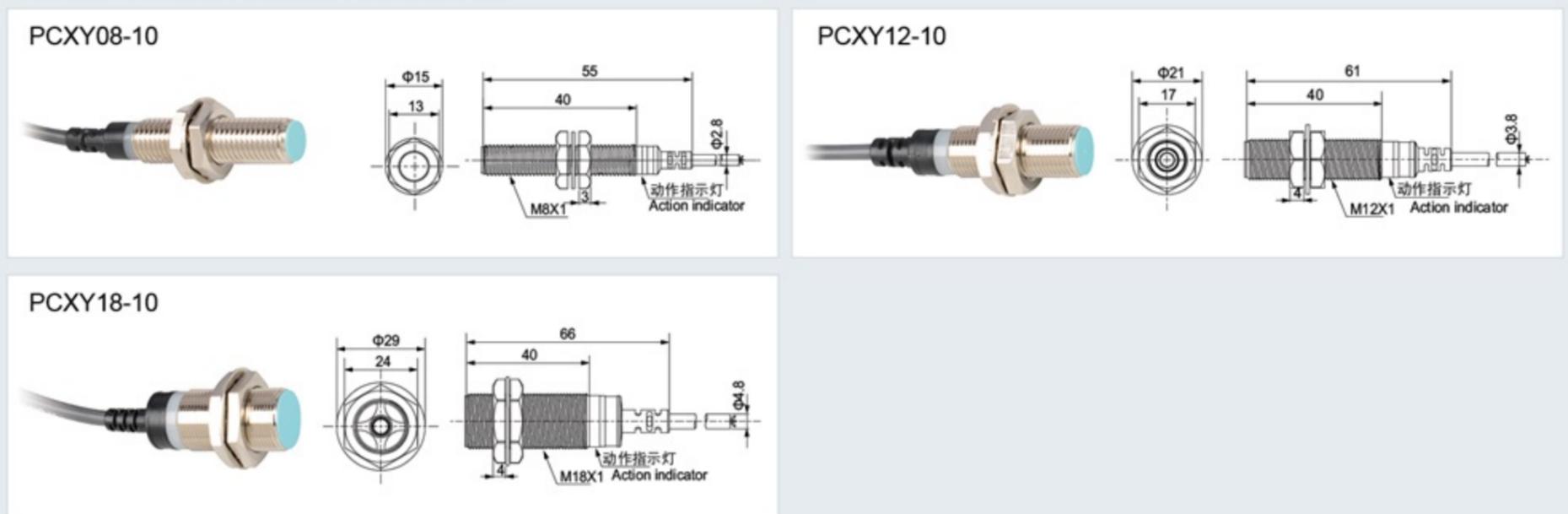


项目 Item	代号 Code	说明 Description
① 公司代号 Company code	PC	公司代号 Company code
② 产品名称 Product name	X	磁性开关 Magnetic sensor
③ 外壳形状 Shape of shell	Y	圆柱形 Cylinder-shaped
④ 尺寸代码 Dimension code	12	12=M12
⑤ 产品类型 Product type	无 Without	高端型 High-end type
⑥ 检测距离 Detection distance	10	10=10mm
	K	AC 二线 AC 2 wires
⑦ 输出方式 Output mode	L	DC 二线 DC 2 wires
	A	常开 NO
⑧ 输出状态 Output state	B	常闭 NC
	C	常开 + 常闭 NO+NC
	无 Without	引线式 Without: Lead wire
⑨ 连接形式 Connection	T	接插式 Plug-in
	R	配线引出接插式 Wiring leads Plug-in

规格 Specifications

型号名 Model	PCXY08-10LA PCXY08-10KA	PCXY12-10LA PCXY12-10KA	PCXY18-10LA PCXY18-10KA	PCXF18-10LA PCXF18-10KA
检测距离 Sensing distance	10mm	10mm	10mm	10mm
应差距离 Hysteresis	3-20%			
消耗电流 Consumption current	10mA 以下			
电源 (使用电压范围) Power supply (Operating voltage)	12-240VDC/AC			
响应频率 Response frequency	100Hz			
残留电压 Residual voltage	3V 以下 Max. 3V			
温度的影响 Affection by Temp.	在 -25~+70℃ 温度范围内 +20℃ 时的检测距离的 ± 10% 以内 Max. ± 10% for sensing distance at ambient temperature 20℃			
控制输出 Control output	200mA 以下 Max. 200mA			
绝缘阻抗 Insulation resistance	50MΩ 以上 (500VDC 为基准) Min. 50MΩ (at 500VDC megger)			
耐电压 Dielectric strength	1500VAC 50/60Hz 1 分钟 1500VAC 50/60Hz for 1minute			
耐振动 Vibration	10~55Hz(周期 1 分钟) 振幅 1mm X, Y, Z 各方向 2 小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours			
耐冲击 Shock	500m/s ² (50G) X, Y, Z 各方向 3 次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times			
显示灯 Indicator	动作指示灯 (红色 LED) Operation indicator(red LED)			
使用周围温度 Ambient temperature	-15~+55℃ (未结冰状态 No icing)			
储存温度 Storage temperature	-15~+55℃ (未结冰状态 No icing)			
使用周围湿度 Ambient humidity	35~95%RH (未结露状态 No condensation)			
保护电路 Protection circuit	浪涌保护电路 Surge protection circuit			
材质 Material	外壳 / 螺母: 镀镍黄铜, 垫片: 镍镀铁, 检测面: PBT, 一般线缆 (灰色): 聚氯乙烯 (PVC), 耐油性线缆 (黑色): 聚氯乙烯 (耐油强化型 PVC) Case/Nut: Nickel plated Brass, Washer: Nickel plated Iron, Sensing surface: PBT, Standard cable(Gray): Polyvinyl chloride(PVC), Oil resistant cable(Black): Oil resistant Polyvinyl chloride(PVC)			
连接线缆 Cable	φ 2.8, 2P, 2m	φ 3.8, 2P, 2m	φ 4.8, 2P, 2m	
	AWG22, 芯线直径 :0.1mm, 芯线数 :22, 绝缘皮外径 : φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores: 22, Insulator diameter: φ 1.25	AWG22, 芯线直径 :0.1mm, 芯线数 :25, 绝缘皮外径 : φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores: 25, Insulator diameter: φ 1.25	AWG22, 芯线直径 :0.1mm, 芯线数 :30, 绝缘皮外径 : φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores: 30, Insulator diameter: φ 1.25	
防护等级 Protection	IP67			

外观和尺寸 Appearance and Dimension





特点 Features

- 米白色标识代表标准型产品
- 深灰色标识代表高端型产品
- Dark grey mark for standard type
- Blue green mark for high-end type

- 采用专用 IC 提高抗干扰能力
- 内置浪涌保护, 电源反接保护电路
- 寿命长, 高可靠性, 操作简单, 经济实惠
- 红色 LED 状态指示灯, 易于识别运行状态
- IP65 防护等级 (IEC 规格)

- Exclusively designed IC for improving anti-jamming capability
- Inside surge protection, reverse polarity protection
- Long use-life cycle and high reliability, easy install, economic price
- Red LED status indication, easy to confirm work situation
- Protection structure IP65(IEC standard)

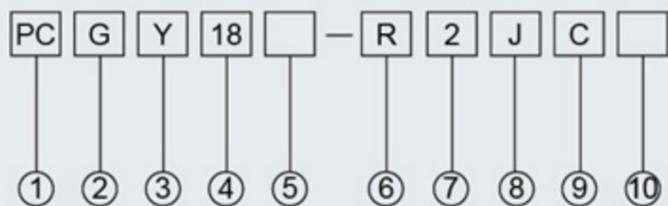


■ 米白色标准型
Rice white



■ 深灰色高端型
Dark grey

型号说明 Model Number Structure



项目 Item	代号 Code	说明 Description
① 公司代号 Company code	PC	公司代号 Company code
② 产品名称 Product name	G	光电开关 Photoelectric sensor
③ 外壳形状 Shape of shell	Y	圆柱形 Cylinder-shaped
④ 尺寸代码 Dimension code	18	18=M18
⑤ 产品类型 Product type	无 Without	无 Without = 高端型 High-end type (深灰 Dark grey)
	E	E = 标准型 Standard type (米白 Rice white)
⑥ 安装形式 Installation form	D	漫反射型 Diffuse-reflective type
	R	镜面反射型 Retro-reflective type
	T	对射型 Through-bethod type
⑦ 检测距离 Detection distance	2	2=2m
⑧ 输出方式 Output mode	K	AC 二线 AC 2wires
	P	PNP 三线 PNP 3wires
	N	NPN 三线 NPN 3wires
	J	继电器 Relay
⑨ 输出状态 Output state	A	常开 NO
	B	常闭 NC
	C	常开 + 常闭 NO+NC
⑩ 连接形式 Connection	无 Without	引线式 Without: Lead wire
	T	接插式 Plug-in
	R	配线引出接插式 Wiring leads Plug-in

注: 壳体螺母可定制镀镍黄铜材质, 产品型号加 (-B), 例: PCGY18-R2JC-B。

Note: Shell nuts can be customized nickel plated brass material, product model plus (-B), example: PCGY18-R2JC-B.

规格 Specifications

漫反射型 Diffuse-reflective type

型号名 Model	高端型 High-end type	PCGY12-D05NA PCGY12-D05NB PCGY12-D05PA PCGY12-D05PB	PCGY12-D10NA PCGY12-D10NB PCGY12-D10PA PCGY12-D10PB	PCGY18-D10NA PCGY18-D10NB PCGY18-D10NC PCGY18-D10PA PCGY18-D10PB PCGY18-D10PC PCGY18-D10KA PCGY18-D10KB	PCGY18-D30NA PCGY18-D30NB PCGY18-D30NC PCGY18-D30PA PCGY18-D30PB PCGY18-D30PC PCGY18-D30KA PCGY18-D30KB	PCGY30-D50NA PCGY30-D50NB PCGY30-D50NC PCGY30-D50PA PCGY30-D50PB PCGY30-D50PC PCGY30-D50KA PCGY30-D50KB	PCGY30-D70NA PCGY30-D70NB PCGY30-D70NC PCGY30-D70PA PCGY30-D70PB PCGY30-D70PC PCGY30-D70KA PCGY30-D70KB
	标准型 Standard type	PCGY12E-D05NA PCGY12E-D05NB PCGY12E-D05PA PCGY12E-D05PB	PCGY12E-D10NA PCGY12E-D10NB PCGY12E-D10PA PCGY12E-D10PB	PCGY18E-D10NA PCGY18E-D10NB PCGY18E-D10NC PCGY18E-D10PA PCGY18E-D10PB PCGY18E-D10PC PCGY18E-D10KA PCGY18E-D10KB	PCGY18E-D30NA PCGY18E-D30NB PCGY18E-D30NC PCGY18E-D30PA PCGY18E-D30PB PCGY18E-D30PC PCGY18E-D30KA PCGY18E-D30KB	PCGY30E-D50NA PCGY30E-D50NB PCGY30E-D50NC PCGY30E-D50PA PCGY30E-D50PB PCGY30E-D50PC PCGY30E-D50KA PCGY30E-D50KB	PCGY30E-D70NA PCGY30E-D70NB PCGY30E-D70NC PCGY30E-D70PA PCGY30E-D70PB PCGY30E-D70PC PCGY30E-D70KA PCGY30E-D70KB
检测距离 Sensing distance	5cm	10cm (可调 Adjustable)	10cm	30cm (可调 Adjustable)	50cm	70cm (可调 Adjustable)	
应差距离 Hysteresis	3-20%						
光源 Light source	红外 LED (880nm) Infrared LED (880nm)						
消耗电流 Consumption current	25mA 以下						
电源 (使用电压范围) Power supply (Operating voltage)	10-30VDC / 90-250VAC						
响应时间 Response time	< 8.2ms						
残留电压 Residual voltage	DC 1V 以下 Max. 1V / AC 10V 以下 Max. 10V						
温度的影响 Affection by Temp.	在 -25~+55℃ 温度范围内 +20℃ 时的检测距离的 ± 10% 以内 Max. ± 10% for sensing distance at ambient temperature 20℃						
控制输出 Control output	200mA 以下 Max. 200mA						
绝缘阻抗 Insulation resistance	50MΩ 以上 (500VDC 为基准) Min. 50MΩ (at 500VDC megger)						
耐电压 Dielectric strength	1500VAC 50/60Hz 1 分钟 1500VAC 50/60Hz for 1minute						
耐振动 Vibration	10~55Hz(周期 1 分钟) 振幅 1mm X, Y, Z 各方向 2 小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours						
耐冲击 Shock	500m/s ² (50G) X, Y, Z 各方向 3 次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times						
显示灯 Indicator	动作指示灯 (红色 LED) Operation indicator(red LED)						
使用周围温度 Ambient temperature	-15~+55℃ (未结冰状态 No icing)						
储存温度 Storage temperature	-15~+55℃ (未结冰状态 No icing)						
使用周围湿度 Ambient humidity	35~95%RH (未结露状态 No condensation)						
保护电路 Protection circuit	浪涌保护电路, 过流保护电路 Surge protection circuit, Overcurrent protection circuit						
材质 Material	外壳 / 螺母: ABS, 检测面: PMMA, 一般线缆 (灰色): 聚氯乙烯 (PVC), 耐油性线缆 (黑色): 聚氯乙烯 (耐油强化型 PVC) Case/Nut: ABS, Sensing surface: PMMA, Standard cable(Gray): Polyvinyl chloride(PVC), Oil resistant cable(Black): Oil resistant Polyvinyl chloride(PVC)						
连接线缆 Cable	高端型 High-end type	φ 3.8, 3P, 2m		φ 4.8, 2P,3P,4P 2m			
	标准型 Standard type	φ 3.8, 3P, 1.5m		φ 4.8, 2P,3P,4P 1.5m			
防护等级 Protection	IP65						

规格 Specifications

镜面反射型 Retro-reflective type

型号名 Model	高端型 High-end type	PCGY12-R1NA PCGY12-R1NB PCGY12-R1PA PCGY12-R1PB	PCGY18-R2NA PCGY18-R2NB PCGY18-R2NC PCGY18-R2PA PCGY18-R2PB PCGY18-R2PC PCGY18-R2KA PCGY18-R2KB	PCGY30-R4NA PCGY30-R4NB PCGY30-R4NC PCGY30-R4PA PCGY30-R4PB PCGY30-R4PC PCGY30-R4KA PCGY30-R4KB
	标准型 Standard type	PCGY12E-R1NA PCGY12E-R1NB PCGY12E-R1PA PCGY12E-R1PB	PCGY18E-R2NA PCGY18E-R2NB PCGY18E-R2NC PCGY18E-R2PA PCGY18E-R2PB PCGY18E-R2PC PCGY18E-R2KA PCGY18E-R2KB	PCGY30E-R4NA PCGY30E-R4NB PCGY30E-R4NC PCGY30E-R4PA PCGY30E-R4PB PCGY30E-R4PC PCGY30E-R4KA PCGY30E-R4KB
检测距离 Sensing distance	1m	2m	4m	
应差距离 Hysteresis	3-20%			
光源 Light source	红外 LED (880nm) Infrared LED (880nm)			
消耗电流 Consumption current	25mA 以下			
电源 (使用电压范围) Power supply (Operating voltage)	10-30VDC / 90-250VAC			
响应时间 Response time	< 8.2ms			
反光板 Reflector	TD02		TD08	
残留电压 Residual voltage	DC 1V 以下 Max. 1V / AC 10V 以下 Max. 10V			
温度的影响 Affection by Temp.	在 -25~+55℃ 温度范围内 +20℃ 时的检测距离的 ± 10% 以内 Max. ± 10% for sensing distance at ambient temperature 20℃			
控制输出 Control output	200mA 以下 Max. 200mA			
绝缘阻抗 Insulation resistance	50MΩ 以上 (500VDC 为基准) Min. 50MΩ (at 500VDC megger)			
耐电压 Dielectric strength	1500VAC 50/60Hz 1 分钟 1500VAC 50/60Hz for 1minute			
耐振动 Vibration	10~55Hz(周期 1 分钟) 振幅 1mm X, Y, Z 各方向 2 小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours			
耐冲击 Shock	500m/s ² (50G) X, Y, Z 各方向 3 次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times			
显示灯 Indicator	动作指示灯 (红色 LED) Operation indicator(red LED)			
使用周围温度 Ambient temperature	-15~+55℃ (未结冰状态 No icing)			
储存温度 Storage temperature	-15~+55℃ (未结冰状态 No icing)			
使用周围湿度 Ambient humidity	35~95%RH (未结露状态 No condensation)			
保护电路 Protection circuit	浪涌保护电路, 过流保护电路 Surge protection circuit, Overcurrent protection circuit			
材质 Material	外壳 / 螺母: ABS, 垫片: 塑料, 检测面: 耐热 PMMA, 一般线缆 (灰色): 聚氯乙烯 (PVC), 耐油性线缆 (黑色): 聚氯乙烯 (耐油强化型 PVC) Case/Nut: ABS, Washer: Plastic, Sensing surface: PMMA, Standard cable(Gray): Polyvinyl chloride(PVC), Oil resistant cable(Black): Oil resistant Polyvinyl chloride(PVC)			
连接线缆 Cable	高端型 High-end type	φ 3.8, 3P, 2m	φ 4.8, 2P,3P,4P 2m	
		AWG22, 芯线直径 :0.1mm, 芯线数 :25, 绝缘皮外径 : φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores: 25, Insulator diameter: φ 1.25)	AWG22, 芯线直径 :0.1mm, 芯线数 :30, 绝缘皮外径 : φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores: 30, Insulator diameter: φ 1.25)	
	标准型 Standard type	φ 3.8, 3P, 1.5m	φ 4.8, 2P,3P,4P 1.5m	
		AWG22, 芯线直径 :0.1mm, 芯线数 :25, 绝缘皮外径 : φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores: 25, Insulator diameter: φ 1.25)	AWG22, 芯线直径 :0.1mm, 芯线数 :30, 绝缘皮外径 : φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores: 30, Insulator diameter: φ 1.25)	
防护等级 Protection	IP65			

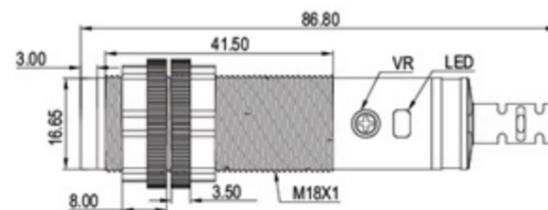
规格 Specifications

对射型 Through-bethod type

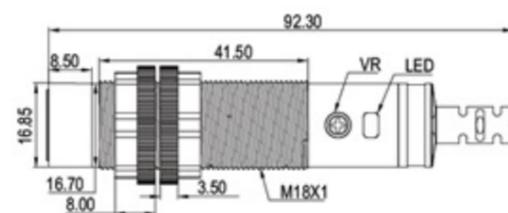
型号名 Model	高端型 High-end type	PCGY12-T3NA PCGY12-T3NB PCGY12-T3PA PCGY12-T3PB	PCGY18-T5NA PCGY18-T5NB PCGY18-T5NC PCGY18-T5PA PCGY18-T5PB PCGY18-T5PC PCGY18-T5KA PCGY18-T5KB	PCGY18-T10NA PCGY18-T10NB PCGY18-T10NC PCGY18-T10PA PCGY18-T10PB PCGY18-T10PC PCGY18-T10KA PCGY18-T10KB	PCGY30-T10NA PCGY30-T10NB PCGY30-T10NC PCGY30-T10PA PCGY30-T10PB PCGY30-T10PC PCGY30-T10KA PCGY30-T10KB	PCGY30-T15NA PCGY30-T15NB PCGY30-T15NC PCGY30-T15PA PCGY30-T15PB PCGY30-T15PC PCGY30-T15KA PCGY30-T15KB
	标准型 Standard type	PCGY12E-T3NA PCGY12E-T3NB PCGY12E-T3PA PCGY12E-T3PB	PCGY18E-T5NA PCGY18E-T5NB PCGY18E-T5NC PCGY18E-T5PA PCGY18E-T5PB PCGY18E-T5PC PCGY18E-T5KA PCGY18E-T5KB	PCGY18E-T10NA PCGY18E-T10NB PCGY18E-T10NC PCGY18E-T10PA PCGY18E-T10PB PCGY18E-T10PC PCGY18E-T10KA PCGY18E-T10KB	PCGY30E-T10NA PCGY30E-T10NB PCGY30E-T10NC PCGY30E-T10PA PCGY30E-T10PB PCGY30E-T10PC PCGY30E-T10KA PCGY30E-T10KB	PCGY30E-T15NA PCGY30E-T15NB PCGY30E-T15NC PCGY30E-T15PA PCGY30E-T15PB PCGY30E-T15PC PCGY30E-T15KA PCGY30E-T15KB
检测距离 Sensing distance	3m	5m	10m	10m	15m	
应差距离 Hysteresis	3-20%					
光源 Light source	红外 LED (880nm) Infrared LED (880nm)					
消耗电流 Consumption current	40mA 以下					
电源 (使用电压范围) Power supply (Operating voltage)	10-30VDC / 90-250VAC					
响应时间 Response time	< 8.2ms					
残留电压 Residual voltage	DC 1V 以下 Max. 1V / AC 10V 以下 Max. 10V					
温度的影响 Affection by Temp.	在 -25~+55℃ 温度范围内 +20℃ 时的检测距离的 ± 10% 以内 Max. ± 10% for sensing distance at ambient temperature 20℃					
控制输出 Control output	200mA 以下 Max. 200mA					
绝缘阻抗 Insulation resistance	50MΩ 以上 (500VDC 为基准) Min. 50MΩ (at 500VDC megger)					
耐电压 Dielectric strength	1500VAC 50/60Hz1 分钟 1500VAC 50/60Hz for 1minute					
耐振动 Vibration	10~55Hz(周期 1 分钟) 振幅 1mm X, Y, Z 各方向 2 小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours					
耐冲击 Shock	500m/s ² (50G) X, Y, Z 各方向 3 次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times					
显示灯 Indicator	动作指示灯 (红色 LED) Operation indicator(red LED)					
使用周围温度 Ambient temperature	-15~+55℃ (未结冰状态 No icing)					
储存温度 Storage temperature	-15~+55℃ (未结冰状态 No icing)					
使用周围湿度 Ambient humidity	35~95%RH (未结露状态 No condensation)					
保护电路 Protection circuit	浪涌保护电路, 过流保护电路 Surge protection circuit, Overcurrent protection circuit					
材质 Material	外壳 / 螺母: ABS, 检测面: 耐热 PMMA, 一般线缆 (灰色): 聚氯乙烯 (PVC), 耐油性线缆 (黑色): 聚氯乙烯 (耐油 强化型 PVC) Case/Nut: ABS, Sensing surface: PMMA, Standard cable(Gray): Polyvinyl chloride(PVC), Oil resistant cable(Black): Oil resistant Polyvinyl chloride(PVC)					
连接线缆 Cable	高端型 High-end type	φ 3.8, 3P, 2m	φ 4.8, 2P,3P,4P 2m			
		AWG22, 芯线直 径 :0.1mm, 芯线数 :25, 绝缘皮外径 : φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores: 25, Insulator diameter: φ 1.25	AWG22, 芯线直径 :0.1mm, 芯线数 :30, 绝缘皮外径 : φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores: 30, Insulator diameter: φ 1.25			
	标准型 Standard type	φ 3.8, 3P, 1.5m	φ 4.8, 2P,3P,4P 1.5m			
		AWG22, 芯线直 径 :0.1mm, 芯线数 :25, 绝缘皮外径 : φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores: 25, Insulator diameter: φ 1.25	AWG22, 芯线直径 :0.1mm, 芯线数 :30, 绝缘皮外径 : φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores: 30, Insulator diameter: φ 1.25			
防护等级 Protection	IP65					

外观和尺寸 Appearance and Dimension

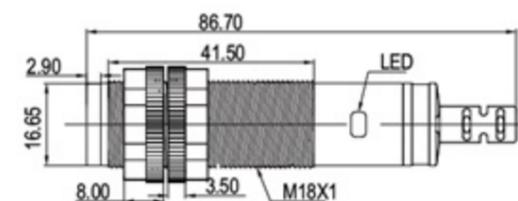
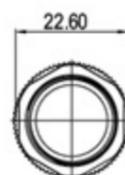
PCGY18-D



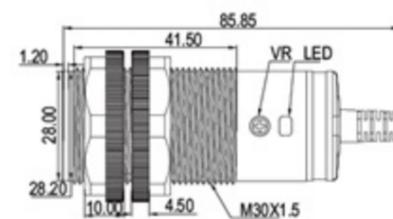
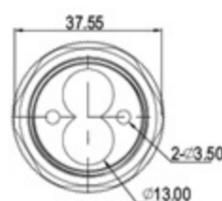
PCGY18-R



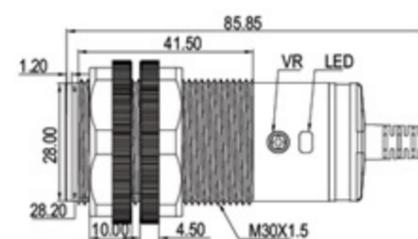
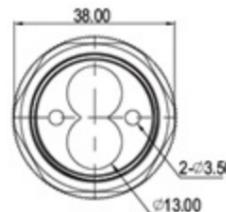
PCGY18-T



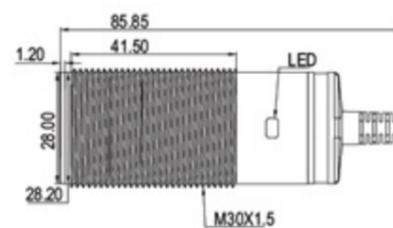
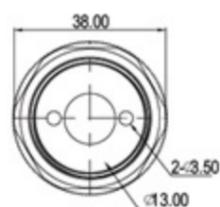
PCGY30-D



PCGY30-R

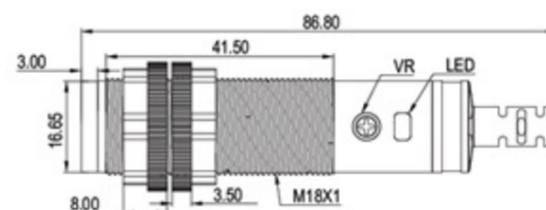


PCGY30-T

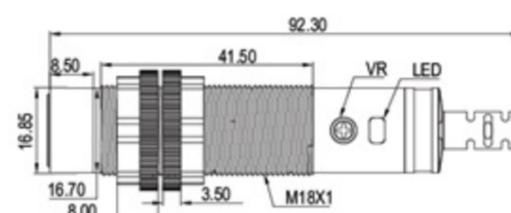


外观和尺寸 Appearance and Dimension

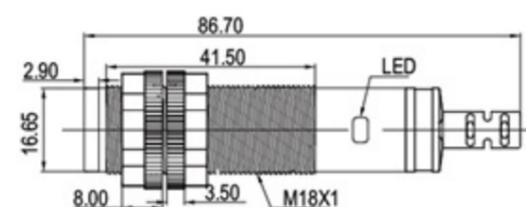
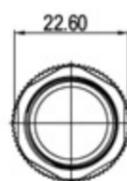
PCGY18E-D



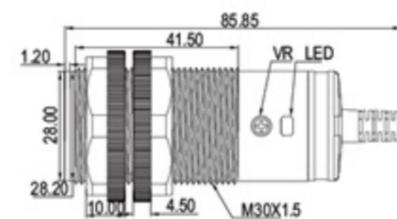
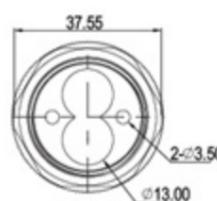
PCGY18E-R



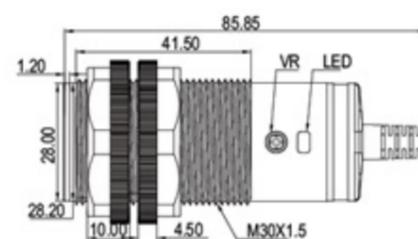
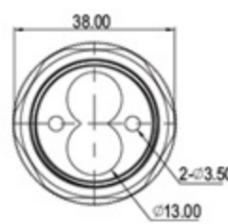
PCGY18E-T



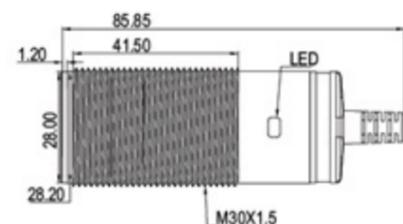
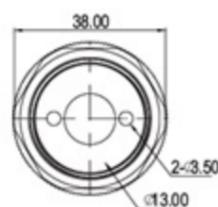
PCGY30E-D



PCGY30E-R



PCGY30E-T





特点 Features

- 黑色标识代表标准型产品
- 深灰色标识代表高端型产品
- Black mark for standard type
- Dark grey mark for high-end type

- 采用专用 IC 提高抗干扰能力
- 内置浪涌保护, 电源反接保护电路
- 寿命长, 高可靠性, 操作简单, 经济实惠
- 红色 LED 状态指示灯, 易于识别运行状态
- IP65 防护等级 (IEC 规格)

- Exclusively designed IC for improving anti-jamming capability
- Inside surge protection, reverse polarity protection
- Long use-life cycle and high reliability, easy install, economic price
- Red LED status indication, easy to confirm work situation
- Protection structure IP65(IEC standard)

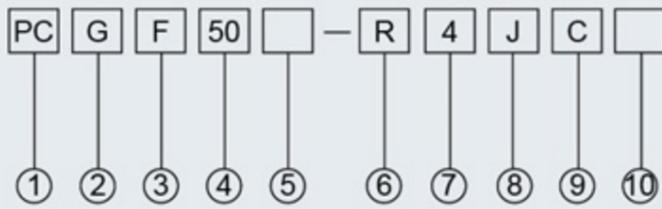


■ 黑色标准型
Black



■ 深灰色高端型
Dark grey

型号说明 Model Number Structure



项目 Item	代号 Code	说明 Description
① 公司代号 Company code	PC	公司代号 Company code
② 产品名称 Product name	G	光电开关 Photoelectric sensor
③ 外壳形状 Shape of shell	F	方形 Square
④ 尺寸代码 Dimension code	50	50= 方形 50 Square 50
⑤ 产品类型 Product type	无 Without	无 Without = 高端型 High-end type (深灰色壳体 Dark grey shell)
	E	E = 标准型 Standard type (黑色壳体 Black shell)
⑥ 安装形式 Installation form	D	漫反射型 Diffuse-reflective type
	R	镜面反射型 Retro-reflective type
	T	对射型 Through-bethod type
⑦ 检测距离 Detection distance	4	4=4m
⑧ 输出方式 Output mode	K	AC 二线 AC 2wires
	P	PNP 三线 PNP 3wires
	N	NPN 三线 NPN 3wires
	J	继电器 Relay
⑨ 输出状态 Output state	A	常开 NO
	B	常闭 NC
	C	常开 + 常闭 NO+NC
⑩ 连接形式 Connection	无 Without	引线式 Without: Lead wire
	T	接插式 Plug-in
	R	配线引出接插式 Wiring leads Plug-in

规格 Specifications

漫反射型 Diffuse-reflective type

型号名 Model	高端型 High-end type	PCGF50-D30JC	PCGF70-D50JC
	标准型 Standard type	PCGF50E-D30JC	PCGF70E-D50JC
检测距离 Sensing distance		30cm(可调)	50cm(可调)
应差距离 Hysteresis		3-20%	
光源 Light source		红外 LED (880nm) Infrared LED (880nm)	
消耗电流 Consumption current		25mA 以下	
电源(使用电压范围)Power supply (Operating voltage)		24-250VDC/AC(高端型 High-end type) 10-30VDC / 90-250VAC(标准型 Standard type)	
响应时间 Response time		< 8.2ms	
残留电压 Residual voltage		1V 以下 Max. 1V	
温度的影响 Affection by Temp.		在 -25~+55℃ 温度范围内 +20℃ 时的检测距离的 ±10% 以内 Max. ±10% for sensing distance at ambient temperature 20℃	
控制输出 Control output		3A	
绝缘阻抗 Insulation resistance		50MΩ 以上 (500VDC 为基准) Min. 50MΩ(at 500VDC megger)	
耐电压 Dielectric strength		1500VAC 50/60Hz1 分钟 1500VAC 50/60Hz for 1minute	
耐振动 Vibration		10~55Hz(周期 1 分钟) 振幅 1mm X, Y, Z 各方向 2 小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours	
耐冲击 Shock		500m/s ² (50G) X, Y, Z 各方向 3 次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times	
显示灯 Indicator		动作指示灯 (红色 LED) Operation indicator(red LED)	
使用周围温度 Ambient temperature		-15~+55℃ (未结冰状态 No icing)	
储存温度 Storage temperature		-15~+55℃ (未结冰状态 No icing)	
使用周围湿度 Ambient humidity		35~95%RH (未结露状态 No condensation)	
保护电路 Protection circuit		浪涌保护电路 Surge protection circuit	
材质 Material		外壳: ABS, 检测面: PMMA, 一般线缆(灰色): 聚氯乙烯(PVC), 耐油性线缆(黑色): 聚氯乙烯(耐油强化型 PVC) Case: ABS, Sensing surface: PMMA, Standard cable(Gray): Polyvinyl chloride(PVC), Oil resistant cable(Black): Oil resistant Polyvinyl chloride(PVC)	
连接线缆 Cable	高端型 High-end type	φ 6, 5P, 2m	/
		AWG22, 芯线直径 :0.1mm, 芯线数 :22, 绝缘皮外径 : φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores: 22, Insulator diameter: φ 1.25	/
	标准型 Standard type	φ 6, 5P, 1.5m	/
		AWG22, 芯线直径 :0.1mm, 芯线数 :22, 绝缘皮外径 : φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores: 22, Insulator diameter: φ 1.25	/
防护等级 Protection		IP65	

规格 Specifications

漫反射型 Diffuse-reflective type

型号名 Model	高端型 High-end type	PCGF50-D30NA PCGF50-D30NB PCGF50-D30NC PCGF50-D30PA PCGF50-D30PB PCGF50-D30PC	PCGF70-D50NA PCGF70-D50NB PCGF70-D50NC PCGF70-D50PA PCGF70-D50PB PCGF70-D50PC
	标准型 Standard type	PCGF50E-D30NA PCGF50E-D30NB PCGF50E-D30NC PCGF50E-D30PA PCGF50E-D30PB PCGF50E-D30PC	PCGF70E-D50NA PCGF70E-D50NB PCGF70E-D50NC PCGF70E-D50PA PCGF70E-D50PB PCGF70E-D50PC
检测距离 Sensing distance	30cm(可调 Adjustable)		50cm(可调 Adjustable)
应差距离 Hysteresis	3-20%		
光源 Light source	红外 LED (880nm) Infrared LED (880nm)		
消耗电流 Consumption current	25mA 以下		
电源 (使用电压范围) Power supply (Operating voltage)	10-30VDC		
响应时间 Response time	< 8.2ms		
残留电压 Residual voltage	1V 以下 Max.1V		
温度的影响 Affection by Temp.	在 -25~+55℃ 温度范围内 +20℃ 时的检测距离的 ± 10% 以内 Max. ± 10% for sensing distance at ambient temperature 20℃		
控制输出 Control output	200mA 以下 Max. 200mA		
绝缘阻抗 Insulation resistance	50MΩ 以上 (500VDC 为基准) Min. 50MΩ (at 500VDC megger)		
耐电压 Dielectric strength	1500VAC 50/60Hz 1 分钟 1500VAC 50/60Hz for 1minute		
耐振动 Vibration	10~55Hz(周期 1 分钟) 振幅 1mm X, Y, Z 各方向 2 小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours		
耐冲击 Shock	500m/s ² (50G) X, Y, Z 各方向 3 次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times		
显示灯 Indicator	动作指示灯 (红色 LED) Operation indicator(red LED)		
使用周围温度 Ambient temperature	-15~+55℃ (未结冰状态 No icing)		
储存温度 Storage temperature	-15~+55℃ (未结冰状态 No icing)		
使用周围湿度 Ambient humidity	35~95%RH (未结露状态 No condensation)		
保护电路 Protection circuit	浪涌保护电路, 过流保护电路 Surge protection circuit, Overcurrent protection circuit		
材质 Material	外壳: ABS, 检测面: PMMA, 一般线缆 (灰色): 聚氯乙烯 (PVC), 耐油性线缆 (黑色): 聚氯乙烯 (耐油强化型 PVC) Case: ABS, Sensing surface: PMMA, Standard cable(Gray): Polyvinyl chloride(PVC), Oil resistant cable(Black): Oil resistant Polyvinyl chloride(PVC)		
连接线缆 Cable	高端型 High-end type	φ 6, 3P,4P, 2m	/
		AWG22, 芯线直径 :0.1mm, 芯线数 :22, 绝缘皮外径 : φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores: 22, Insulator diameter: φ 1.25)	/
	标准型 Standard type	φ 6, 3P,4P, 1.5m	/
		AWG22, 芯线直径 :0.1mm, 芯线数 :22, 绝缘皮外径 : φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores: 22, Insulator diameter: φ 1.25)	/
防护等级 Protection	IP65		

规格 Specifications

镜面反射型 Retro-reflective type

型号名 Model	高端型 High-end type	PCGF50-R4JC	PCGF70-R5JC
	标准型 Standard type	PCGF50E-R4JC	PCGF70E-R5JC
检测距离 Sensing distance		4m	5m
应差距离 Hysteresis		3-20%	
光源 Light source		红外 LED (880nm) Infrared LED (880nm)	
消耗电流 Consumption current		25mA 以下	
电源 (使用电压范围) Power supply (Operating voltage)		24-250VDC/AC(高端型 High-end type) 10-30VDC / 90-250VAC(标准型 Standard type)	
响应时间 Response time		< 8.2ms	
反光板 Reflector		TD08	
残留电压 Residual voltage		1V 以下 Max. 1V	
温度的影响 Affection by Temp.		在 -25~+55℃ 温度范围内 +20℃ 时的检测距离的 ± 10% 以内 Max. ± 10% for sensing distance at ambient temperature 20℃	
控制输出 Control output		3A	
绝缘阻抗 Insulation resistance		50MΩ 以上 (500VDC 为基准) Min. 50MΩ (at 500VDC megger)	
耐电压 Dielectric strength		1500VAC 50/60Hz 1 分钟 1500VAC 50/60Hz for 1minute	
耐振动 Vibration		10~55Hz(周期 1 分钟) 振幅 1mm X, Y, Z 各方向 2 小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours	
耐冲击 Shock		500m/s ² (50G) X, Y, Z 各方向 3 次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times	
显示灯 Indicator		动作指示灯 (红色 LED) Operation indicator(red LED)	
使用周围温度 Ambient temperature		-15~+55℃ (未结冰状态 No icing)	
储存温度 Storage temperature		-15~+55℃ (未结冰状态 No icing)	
使用周围湿度 Ambient humidity		35~95%RH (未结露状态 No condensation)	
保护电路 Protection circuit		浪涌保护电路 Surge protection circuit,	
材质 Material		外壳: ABS, 检测面: PMMA, 一般线缆 (灰色): 聚氯乙烯 (PVC), 耐油性线缆 (黑色): 聚氯乙烯 (耐油强化型 PVC) Case: ABS, Sensing surface: PMMA, Standard cable(Gray): Polyvinyl chloride(PVC), Oil resistant cable(Black): Oil resistant Polyvinyl chloride(PVC)	
连接线缆 Cable	高端型 High-end type	φ 6, 5P, 2m	/
		AWG22, 芯线直径 :0.1mm, 芯线数 :22, 绝缘皮外径 : φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores: 22, Insulator diameter: φ 1.25	/
	标准型 Standard type	φ 6, 5P, 1.5m	/
		AWG22, 芯线直径 :0.1mm, 芯线数 :22, 绝缘皮外径 : φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores: 22, Insulator diameter: φ 1.25	/
防护等级 Protection		IP65	

规格 Specifications

镜面反射型 Retro-reflective type

型号名 Model	高端型 High-end type	PCGF50-R4NA PCGF50-R4NB PCGF50-R4NC PCGF50-R4PA PCGF50-R4PB PCGF50-R4PC	PCGF70-R5NA PCGF70-R5NB PCGF70-R5NC PCGF70-R5PA PCGF70-R5PB PCGF70-R5PC
	标准型 Standard type	PCGF50E-R4NA PCGF50E-R4NB PCGF50E-R4NC PCGF50E-R4PA PCGF50E-R4PB PCGF50E-R4PC	PCGF70E-R5NA PCGF70E-R5NB PCGF70E-R5NC PCGF70E-R5PA PCGF70E-R5PB PCGF70E-R5PC
检测距离 Sensing distance	4m		5m
应差距离 Hysteresis	3-20%		
光源 Light source	红外 LED (880nm) Infrared LED (880nm)		
消耗电流 Consumption current	25mA 以下		
电源 (使用电压范围) Power supply (Operating voltage)	10-30VDC		
响应时间 Response time	< 8.2ms		
反光板 Reflector	高端型 High-end type	TD08	
	标准型 Standard type	TD09	TD05
残留电压 Residual voltage	1V 以下 Max. 1V		
温度的影响 Affection by Temp.	在 -25~+55℃ 温度范围内 +20℃ 时的检测距离的 ± 10% 以内 Max. ± 10% for sensing distance at ambient temperature 20℃		
控制输出 Control output	200mA 以下 Max. 200mA		
绝缘阻抗 Insulation resistance	50MΩ 以上 (500VDC 为基准) Min. 50MΩ (at 500VDC megger)		
耐电压 Dielectric strength	1500VAC 50/60Hz 1 分钟 1500VAC 50/60Hz for 1minute		
耐振动 Vibration	10~55Hz(周期 1 分钟) 振幅 1mm X, Y, Z 各方向 2 小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours		
耐冲击 Shock	500m/s ² (50G) X, Y, Z 各方向 3 次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times		
显示灯 Indicator	动作指示灯 (红色 LED) Operation indicator(red LED)		
使用周围温度 Ambient temperature	-15~+55℃ (未结冰状态 No icing)		
储存温度 Storage temperature	-15~+55℃ (未结冰状态 No icing)		
使用周围湿度 Ambient humidity	35~95%RH (未结露状态 No condensation)		
保护电路 Protection circuit	浪涌保护电路, 过流保护电路 Surge protection circuit, Overcurrent protection circuit		
材质 Material	外壳: ABS, 检测面: PMMA, 一般线缆 (灰色): 聚氯乙烯 (PVC), 耐油性线缆 (黑色): 聚氯乙烯 (耐油强化型 PVC) Case: ABS, Sensing surface: PMMA, Standard cable(Gray): Polyvinyl chloride(PVC), Oil resistant cable(Black): Oil resistant Polyvinyl chloride(PVC)		
连接线缆 Cable	高端型 High-end type	φ 6, 3P,4P, 2m	/
		AWG22, 芯线直径 :0.1mm, 芯线数 :22, 绝缘皮外径 : φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores: 22, Insulator diameter: φ 1.25)	/
	标准型 Standard type	φ 6, 3P,4P, 1.5m	/
		AWG22, 芯线直径 :0.1mm, 芯线数 :22, 绝缘皮外径 : φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores: 22, Insulator diameter: φ 1.25)	/
防护等级 Protection	IP65		

规格 Specifications

对射型 Through-bethod type

型号名 Model	高端型 High-end type	PCGF50-T10JC	PCGF70-T15JC
	标准型 Standard type	PCGF50E-T10JC	PCGF70E-T15JC
检测距离 Sensing distance		10m	15m
应差距离 Hysteresis		3-20%	
光源 Light source		红外 LED (880nm) Infrared LED (880nm)	
消耗电流 Consumption current		50mA 以下	
电源 (使用电压范围) Power supply (Operating voltage)		24-250VDC/AC(高端型 High-end type) 10-30VDC / 90-250VAC(标准型 Standard type)	
响应时间 Response time		< 8.2ms	
残留电压 Residual voltage		1V 以下 Max. 1V	
温度的影响 Affection by Temp.		在 -25~+55℃ 温度范围内 +20℃ 时的检测距离的 ± 10% 以内 Max. ± 10% for sensing distance at ambient temperature 20℃	
控制输出 Control output		3A	
绝缘阻抗 Insulation resistance		50MΩ 以上 (500VDC 为基准) Min. 50MΩ(at 500VDC megger)	
耐电压 Dielectric strength		1500VAC 50/60Hz1 分钟 1500VAC 50/60Hz for 1minute	
耐振动 Vibration		10~55Hz(周期 1 分钟) 振幅 1mm X, Y, Z 各方向 2 小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours	
耐冲击 Shock		500m/s ² (50G) X, Y, Z 各方向 3 次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times	
显示灯 Indicator		动作指示灯 (红色 LED) Operation indicator(red LED)	
使用周围温度 Ambient temperature		-15~+55℃ (未结冰状态 No icing)	
储存温度 Storage temperature		-15~+55℃ (未结冰状态 No icing)	
使用周围湿度 Ambient humidity		35~95%RH (未结露状态 No condensation)	
保护电路 Protection circuit		浪涌保护电路 Surge protection circuit	
材质 Material		外壳: ABS, 检测面: PMMA, 一般线缆 (灰色): 聚氯乙烯 (PVC), 耐油性线缆 (黑色): 聚氯乙烯 (耐油强化型 PVC) Case: ABS, Sensing surface: PMMA, Standard cable(Gray): Polyvinyl chloride(PVC), Oil resistant cable(Black): Oil resistant Polyvinyl chloride(PVC)	
连接线缆 Cable	高端型 High-end type	φ 6, 5P, 2m	/
		AWG22, 芯线直径 :0.1mm, 芯线数 :22, 绝缘皮外径 : φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores: 22, Insulator diameter: φ 1.25	/
	标准型 Standard type	φ 6, 5P, 1.5m	/
		AWG22, 芯线直径 :0.1mm, 芯线数 :22, 绝缘皮外径 : φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores: 22, Insulator diameter: φ 1.25	/
防护等级 Protection		IP65	

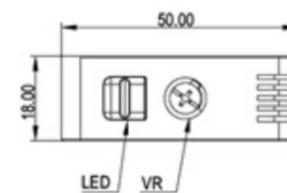
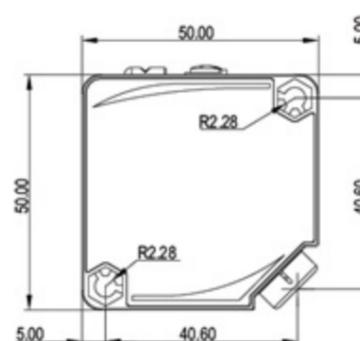
规格 Specifications

对射型 Through-bethod type

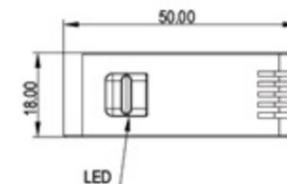
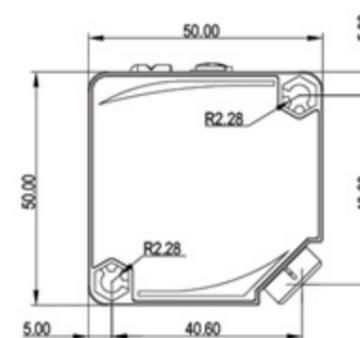
型号名 Model	高端型 High-end type	PCGF50-T10NA PCGF50-T10NB PCGF50-T10NC PCGF50-T10PA PCGF50-T10PB PCGF50-T10PC	PCGF70-T15NA PCGF70-T15NB PCGF70-T15NC PCGF70-T15PA PCGF70-T15PB PCGF70-T15PC
	标准型 Standard type	PCGF50E-T10NA PCGF50E-T10NB PCGF50E-T10NC PCGF50E-T10PA PCGF50E-T10PB PCGF50E-T10PC	PCGF70E-T15NA PCGF70E-T15NB PCGF70E-T15NC PCGF70E-T15PA PCGF70E-T15PB PCGF70E-T15PC
检测距离 Sensing distance	10m		15m
应差距离 Hysteresis	3-20%		
光源 Light source	红外 LED (880nm) Infrared LED (880nm)		
消耗电流 Consumption current	40mA 以下		
电源 (使用电压范围) Power supply (Operating voltage)	10-30VDC		
响应时间 Response time	< 8.2ms		
残留电压 Residual voltage	1V 以下 Max. 1V		
温度的影响 Affection by Temp.	在 -25~+55℃ 温度范围内 +20℃ 时的检测距离的 ± 10% 以内 Max. ± 10% for sensing distance at ambient temperature 20℃		
控制输出 Control output	200mA 以下 Max. 200mA		
绝缘阻抗 Insulation resistance	50MΩ 以上 (500VDC 为基准) Min. 50MΩ (at 500VDC megger)		
耐电压 Dielectric strength	1500VAC 50/60Hz 1 分钟 1500VAC 50/60Hz for 1minute		
耐振动 Vibration	10~55Hz(周期 1 分钟) 振幅 1mm X, Y, Z 各方向 2 小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours		
耐冲击 Shock	500m/s ² (50G) X, Y, Z 各方向 3 次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times		
显示灯 Indicator	动作指示灯 (红色 LED) Operation indicator(red LED)		
使用周围温度 Ambient temperature	-15~+55℃ (未结冰状态 No icing)		
储存温度 Storage temperature	-15~+55℃ (未结冰状态 No icing)		
使用周围湿度 Ambient humidity	35~95%RH (未结露状态 No condensation)		
保护电路 Protection circuit	浪涌保护电路, 过流保护电路 Surge protection circuit, Overcurrent protection circuit		
材质 Material	外壳: ABS, 检测面: PMMA, 一般线缆 (灰色): 聚氯乙烯 (PVC), 耐油性线缆 (黑色): 聚氯乙烯 (耐油强化型 PVC) Case: ABS, Sensing surface: PMMA, Standard cable(Gray): Polyvinyl chloride(PVC), Oil resistant cable(Black): Oil resistant Polyvinyl chloride(PVC)		
连接线缆 Cable	高端型 High-end type	φ 6, 2P,3P,4P, 2m	/
		AWG22, 芯线直径 :0.1mm, 芯线数 :22, 绝缘皮外径 : φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores:22, Insulator diameter: φ 1.25)	/
	标准型 Standard type	φ 6, 2P,3P,4P, 1.5m	/
		AWG22, 芯线直径 :0.1mm, 芯线数 :22, 绝缘皮外径 : φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores:22, Insulator diameter: φ 1.25)	/
防护等级 Protection	IP65		

外观和尺寸 Appearance and Dimension

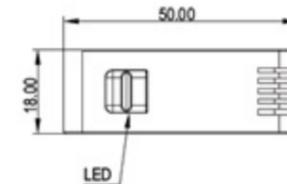
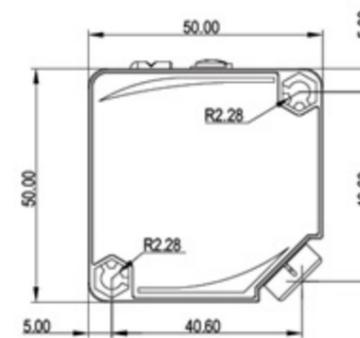
PCGF50-D



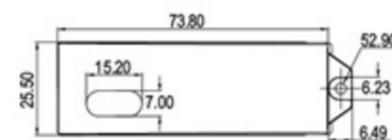
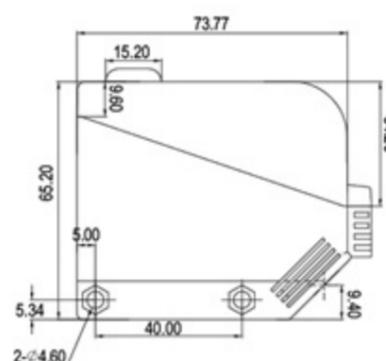
PCGF50-R



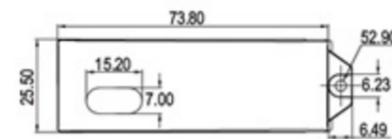
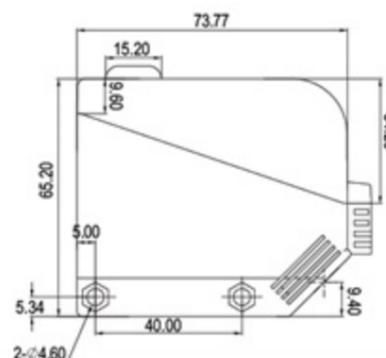
PCGF50-T



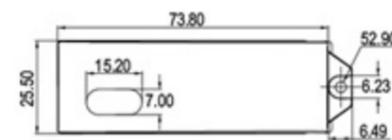
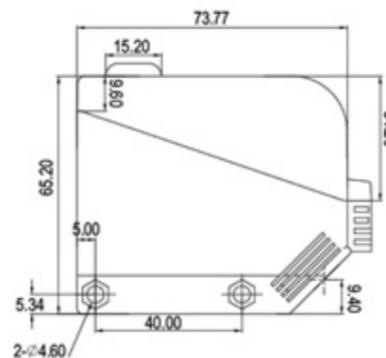
PCGF70-D



PCGF70-R

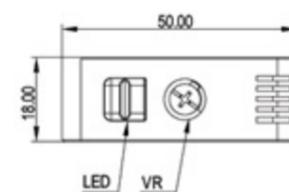
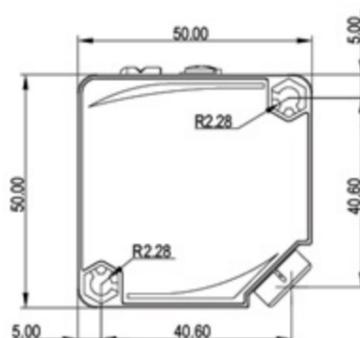


PCGF70-T

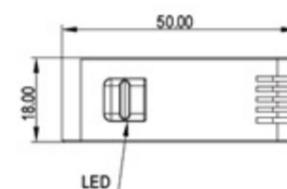
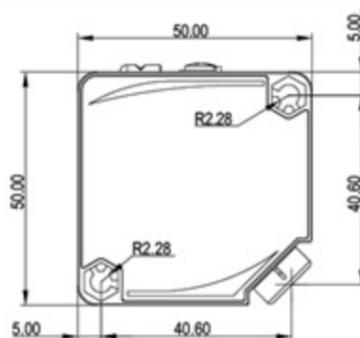


外观和尺寸 Appearance and Dimension

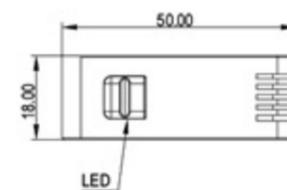
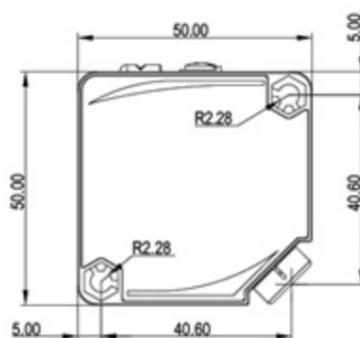
PCGF50E-D



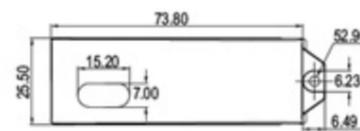
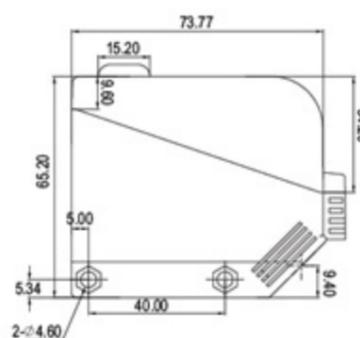
PCGF50E-R



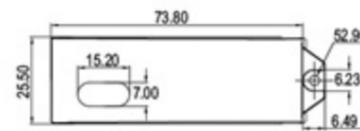
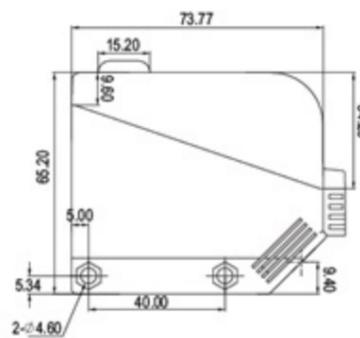
PCGF50E-T



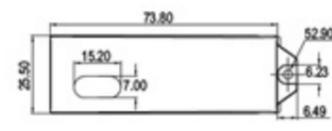
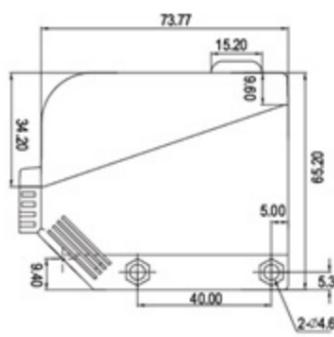
PCGF70E-D



PCGF70E-R



PCGF70E-T





特点 Features

- 黑色标识代表标准型产品
- 深灰色标识代表高端型产品
- Black mark for standard type
- Dark grey mark for high-end type

- 采用专用 IC 提高抗干扰能力
- 内置浪涌保护, 电源反接保护电路
- 寿命长, 高可靠性, 操作简单, 经济实惠
- 红色 LED 状态指示灯, 易于识别运行状态
- IP65 防护等级 (IEC 规格)

- Exclusively designed IC for improving anti-jamming capability
- Inside surge protection, reverse polarity protection
- Long use-life cycle and high reliability, easy install, economic price
- Red LED status indication, easy to confirm work situation
- Protection structure IP65(IEC standard)

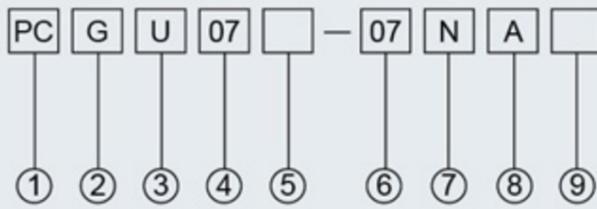


■ 黑色标准型
Black



■ 深灰色高端型
Dark grey

型号说明 Model Number Structure



项目 Item	代号 Code	说明 Description
① 公司代号 Company code	PC	公司代号 Company code
② 产品名称 Product name	G	光电开关 Photoelectric sensor
③ 外壳形状 Shape of shell	U	U 形 U type
④ 尺寸代码 Dimension code	07	7= 槽宽 7mm Groove width 7mm
⑤ 产品类型 Product type	无 Without	无 Without = 高端型 High-end type (深灰色壳体 Dark grey shell)
	E	E = 标准型 Standard type (黑色壳体 Black shell)
⑥ 检测距离 Detection distance	07	7=7mm
⑦ 输出方式 Output mode	K	AC 二线 AC 2wires
	P	PNP 三线 PNP 3wires
	N	NPN 三线 NPN 3wires
	J	继电器 Relay
⑧ 输出状态 Output state	A	常开 NO
	B	常闭 NC
	C	常开 + 常闭 NO+NC
⑨ 连接形式 Connection	无 Without	引线式 Without: Lead wire
	T	接插式 Plug-in
	R	配线引出接插式 Wiring leads Plug-in

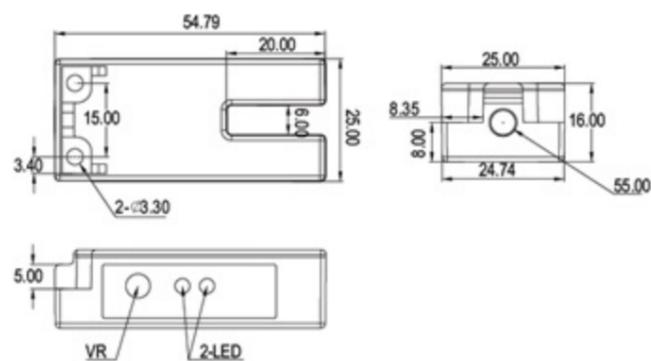
规格 Specifications

U 形光电开关

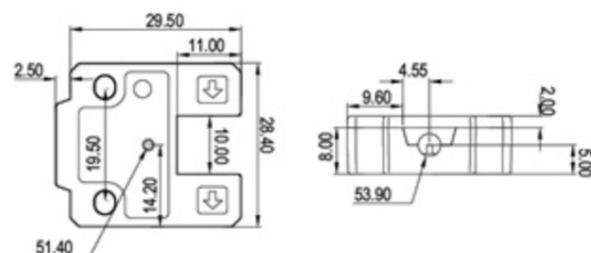
型号名 Model	高端型 High-end type	PCGU07-07NA PCGU07-07NB PCGU07-07NC PCGU07-07PA PCGU07-07PB PCGU07-07PC	PCGU10-10NA PCGU10-10NB PCGU10-10PA PCGU10-10PB	PCGU30-30NA PCGU30-30NB PCGU30-30NC PCGU30-30PA PCGU30-30PB PCGU30-30PC	PCGU50-50NA PCGU50-50NB PCGU50-50NC PCGU50-50PA PCGU50-50PB PCGU50-50PC
	标准型 Standard type	PCGU07E-07NA PCGU07E-07NB PCGU07E-07NC PCGU07E-07PA PCGU07E-07PB PCGU07E-07PC	PCGU10E-10NA PCGU10E-10NB PCGU10E-10PA PCGU10E-10PB	PCGU30E-30NA PCGU30E-30NB PCGU30E-30NC PCGU30E-30PA PCGU30E-30PB PCGU30E-30PC	PCGU50E-50NA PCGU50E-50NB PCGU50E-50NC PCGU50E-50PA PCGU50E-50PB PCGU50E-50PC
检测距离 Sensing distance	7mm		10mm	30mm	50mm
光源 Light source	红外 LED (调制) Infrared LED (Modulation)				
消耗电流 Consumption current	15mA 以下				
电源 (使用电压范围) Power supply (Operating voltage)	10-30VDC				
响应时间 Response time	< 1ms				
残留电压 Residual voltage	1V 以下 Max. 1V				
温度的影响 Affection by Temp.	在 -25~+55℃ 温度范围内 +20℃ 时的检测距离的 ± 10% 以内 Max. ± 10% for sensing distance at ambient temperature 20℃				
控制输出 Control output	200mA 以下 Max. 200mA				
绝缘阻抗 Insulation resistance	50MΩ 以上 (500VDC 为基准) Min. 50MΩ (at 500VDC megger)				
耐电压 Dielectric strength	1500VAC 50/60Hz 1 分钟 1500VAC 50/60Hz for 1minute				
耐振动 Vibration	10~55Hz(周期 1 分钟) 振幅 1mm X, Y, Z 各方向 2 小时 1mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 2 hours				
耐冲击 Shock	500m/s ² (50G) X, Y, Z 各方向 3 次 500m/s ² (approx. 50G) X, Y, Z directions for 3 times				
显示灯 Indicator	动作指示灯 (红色 LED) Operation indicator(red LED)				
使用周围温度 Ambient temperature	-15~+55℃ (未结冰状态 No icing)				
储存温度 Storage temperature	-15~+55℃ (未结冰状态 No icing)				
使用周围湿度 Ambient humidity	35~95%RH (未结露状态 No condensation)				
保护电路 Protection circuit	浪涌保护电路, 过流保护电路 Surge protection circuit, Overcurrent protection circuit				
材质 Material	外壳: ABS, 检测面: PMMA, 一般线缆 (灰色): 聚氯乙烯 (PVC), 耐油性线缆 (黑色): 聚氯乙烯 (耐油强化型 PVC) Case: ABS, Sensing surface: PMMA, Standard cable(Gray): Polyvinyl chloride(PVC), Oil resistant cable(Black): Oil resistant Polyvinyl chloride(PVC)				
连接线缆 Cable	高端型 High-end type	φ 4.8, 3P,4P 2m	φ 3.8, 3P, 2m	φ 4.8, 3P,4P 2m	
		AWG22, 芯线直径 :0.1mm, 芯线数 :30, 绝缘皮外径 : φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores:30, Insulator diameter: φ 1.25)	AWG22, 芯线直径 :0.1mm, 芯线数 :25, 绝缘皮外径 : φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores:25, Insulator diameter: φ 1.25)	AWG22, 芯线直径 :0.1mm, 芯线数 :30, 绝缘皮外径 : φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores:30, Insulator diameter: φ 1.25)	
	标准型 Standard type	φ 4.8, 3P,4P 1.5m	φ 3.8, 3P, 1.5m	φ 4.8, 3P,4P 1.5m	
		AWG22, 芯线直径 :0.1mm, 芯线数 :30, 绝缘皮外径 : φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores:30, Insulator diameter: φ 1.25)	AWG22, 芯线直径 :0.1mm, 芯线数 :25, 绝缘皮外径 : φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores:25, Insulator diameter: φ 1.25)	AWG22, 芯线直径 :0.1mm, 芯线数 :30, 绝缘皮外径 : φ 1.25mm (AWG22, Core diameter: 0.1mm, Number of cores:30, Insulator diameter: φ 1.25)	
防护等级 Protection	IP65				

外观和尺寸 Appearance and Dimension

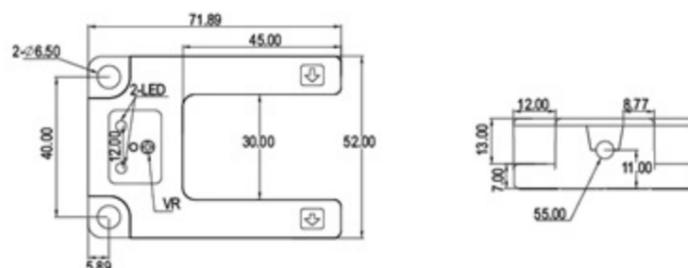
PCGU07-07



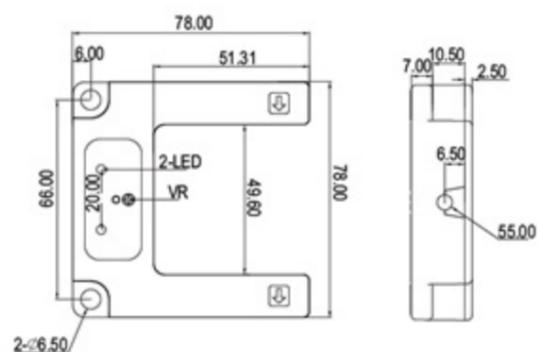
PCGU10-10



PCGU30-30

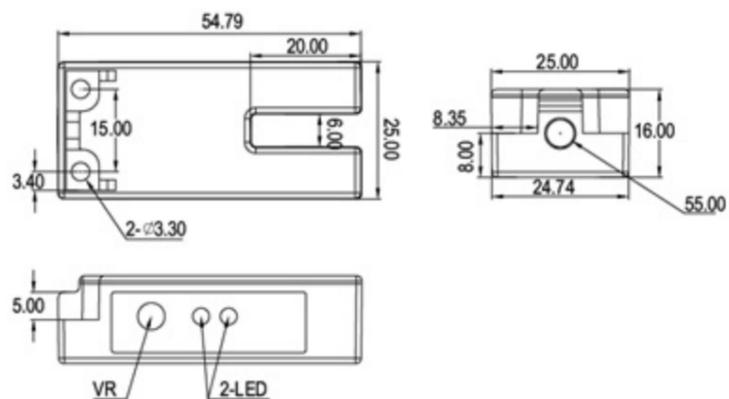


PCGU50-50

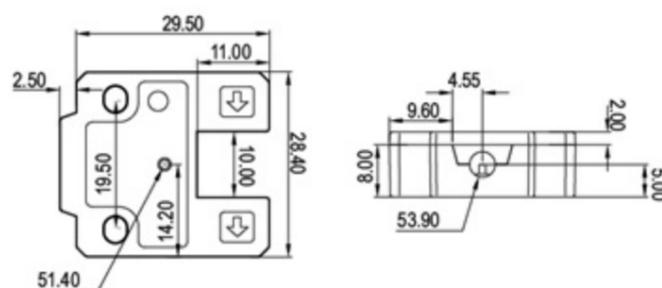


外观和尺寸 Appearance and Dimension

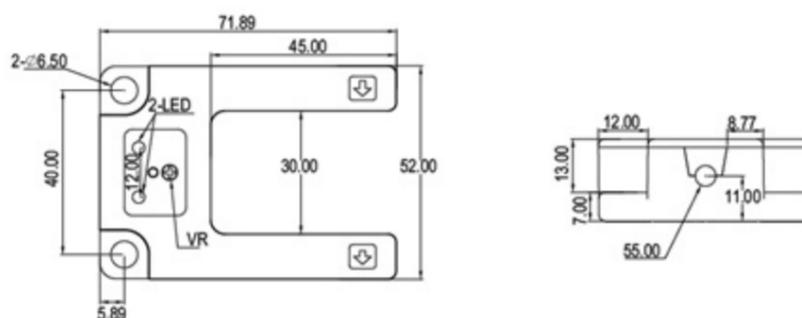
PCGU07E-07



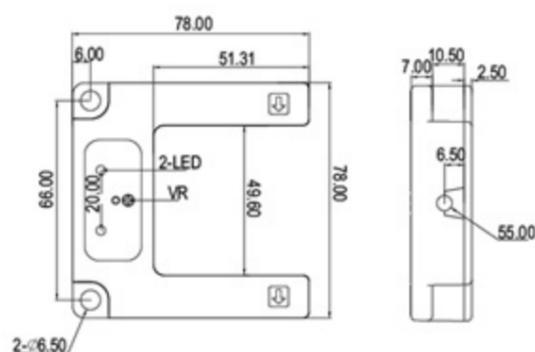
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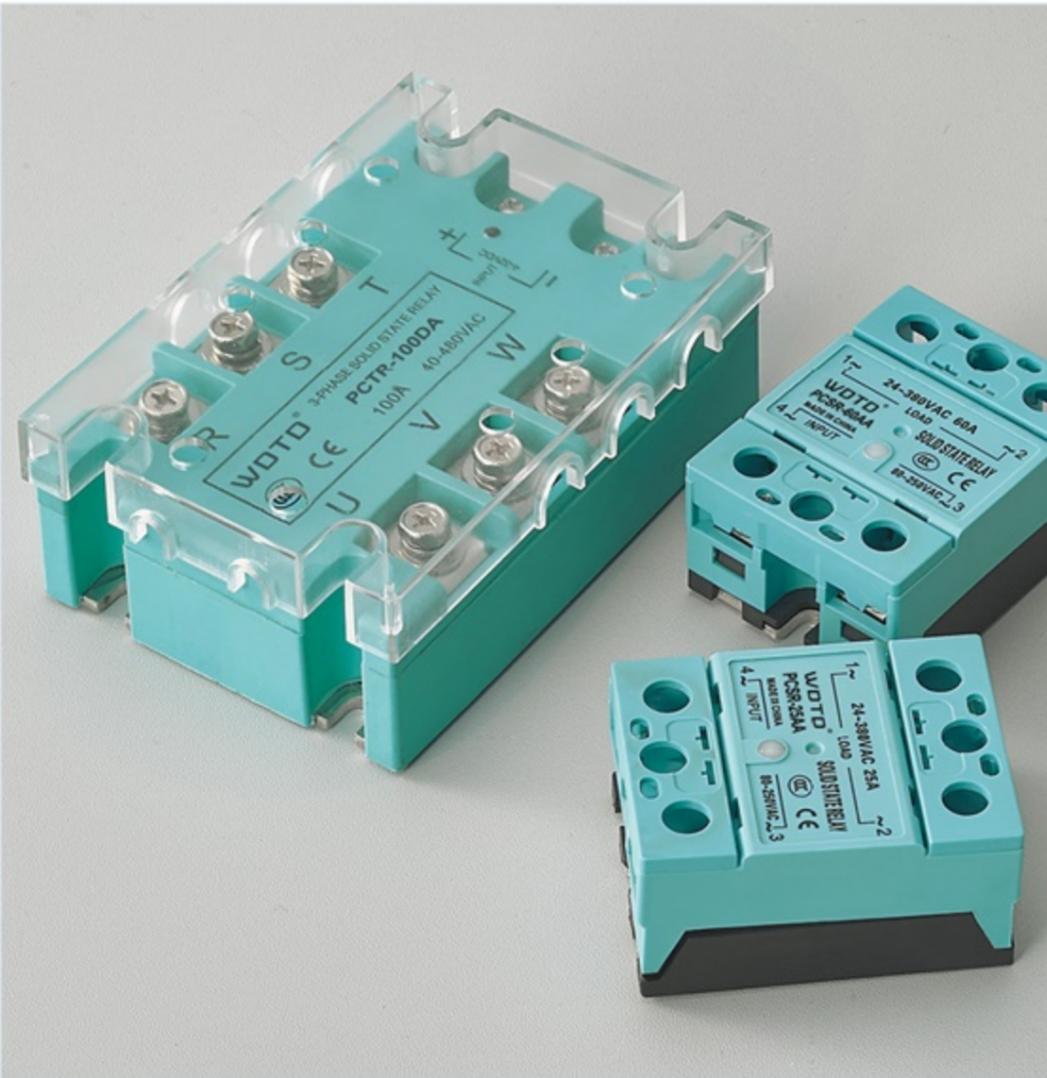


PCGU30E-30



PCGU50E-50





概述 Overview

固态继电器是以电力半导体器件为主功率器件的工业控制电器,它与传统的电磁接触式工业控制器相比较,更符合电力电气设备朝着高性能,智能化,数字化,系统化及绿色化发展的要求。

固态继电器按照开关方式分为过零导通型和随机导通型。当输入控制信号后,随机型能立即导通,过零型要等到负载电压过零区域才能导通。撤销控制信号后,都在小于维持电流时关断。过零型有可能造成最大半个周期的延时,却减小了对负载的冲击和射频干扰,是理想的开关器件。随机性特点是反应快,适合应用于调光调温等阻性负载和部分感性负载场合。

当PCSR由导通到关断时,由于电流电压的相位不一致,将产生一个很大的电压上升率(dv/dt)在双向可控硅上,如上升率超过双向可控硅的换向dv/dt指标(标准为300V/us),将导致延时关断甚至失败。由2只单向可控硅反并联构成的增强型PCSR比普通由1只双向可控硅构成的CSR的换向dv/dt有很大的提高(dv/dt值为500V/us)。因此在感性负载或容性负载领域建议选用增强型PCSR。我司的固态继电器均为增强型。

固态调压器由可控硅开关电路、阻容移相电路。滞后电路和过压吸收电路等以模块的外形组成。使用时只需外接一个电位器,就可以用来实现交流功率调节。在许多场合可以取代笨重的接触式调压器,广泛应用于包装机械、纺织机械、舞台照明电源、电压、温度、亮度、速度等模拟调节。

Solid State Relay(PCSR) is industrial control appliances which use power semiconductor devices for main control part, compare with traditional magnetic contact industrial controllers, it is more high-powered, intelligent, digital, systematic and green development.

according switch mode PCSR have zero-cross and random type. When the input control signal, random type conduction immediately, zero cross type need load voltage turn to zero region just can conduction. Revocation of the control signal,all can cut off when less than maintenance current. zero cross type may cause the maximum half-cycle delay, but reduces the impact of the load and radiofrequency interference, is the ideal switching devices.Random type fast response,suitable for dimmer,thermostats resistive loads and some inductive load applications.

When the PCSR turn off, if in the phase current and voltage have different, will have a large rise rate (dv/dt) on the triac, such as dv/dt higher than Triac standatrd (300V/us), will result in delay shutdown even failure. use anti-parallel thyristor's PCSR(powerful type) will be greatly improved at dv/dt(dv / dt is 500V/us). Therefore, in the field of capacitive load or inductive load, suggest the use powerful type PCSR. WOTO's PCSR are all powerful type.

Solid-state voltage regulator consists of thyristor switching circuit, resistance-capacitance phase shifting circuit,lag circuit and over-voltage absorption circuit.The use of only one external potentiometer can be used to achieve AC power regulation.In many occasions can replace the heavy contact voltage lighting power supply,voltage,temperature,brightness, speed and other analog adjustment.

特点 Features

- 电流: 0.5A 400A
- 电压: 12V 680V
- 通用安装尺寸
- 真空焊接技术
- LED指示灯显示“ON”或“OFF”
- 保护面板
- IEC标准
- 输入输出类型可选择 DC / AC AC / AC DC / DC
- Current:0.5A~400A
- Voltage:12V~680V
- General Install Size
- Vacuum Weld Technics
- Led indicator showing “ON” or “OFF”
- Protect Panel
- IEC standard
- Input & output type could chose DC/AC AC/AC DC/DC



■ 灰色标准型 Gray



■ 浅绿色高端型 Light green

型号说明 Model Number Structure

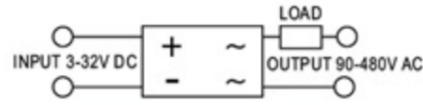


- 1 PCSR=百能堡单相固态继电器 PCSR=BAINENGBAO Single Phase Solid State Relay
PCTR=百能堡三相固态继电器 PCTR=BAINENGBAO Three Phase Solid State Relay
- 2 无=浅绿色高端型 None= Improve Design Type(Light Green)
E=灰色标准型 E=Standard Economic Type(Gray)
- 3 额定电流 Rated Operation Current
- 4 控制和负载电压类型 Comtrol & Load voltgge type
DA=DC(4-32V)AC(24-380V) AA=AC(80-250V)AC(24-380V)
DD=DC(4-32V)DC(12-240V) VA=Voltage regulator调压器(24 380VAC)
- 5 常规过零触发型 None=Zero Cross Trigger
随机触发型 R=Radom Switch

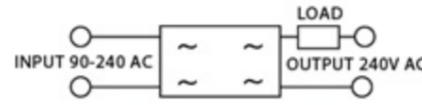
应用 Applications

- 交流直流开关和温度控制
- 自动化控制
- 数控机床
- 包装机械
- 纺织机械
- 玻璃机械
- 塑料机械
- AC DC switch & Temp control
- Automate Control
- CNC machinery
- Packaging machinery
- Textile machinery
- Glass machinery
- Plastic machinery

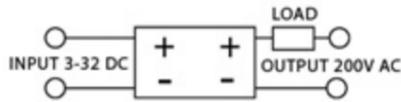
1、PCSR-D(DC TO AC) Application Circuit
DA应用电路



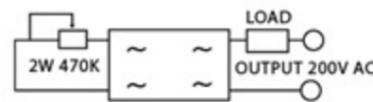
2、PCSR-A(AC TO AC) Application Circuit
AA应用电路



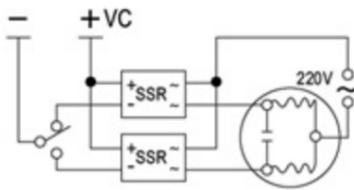
3、PCSR-DD(DC to DC) Application Circuit
DD应用电路



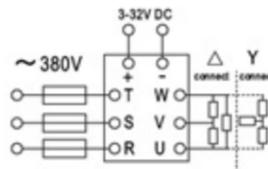
4、PCSR-V(voltage regulator) Application Circuit
VA应用电路



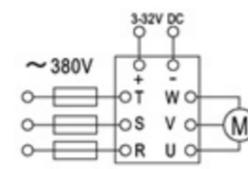
5、Motor positive and reverse Application Circuit
电机正反转应用电路



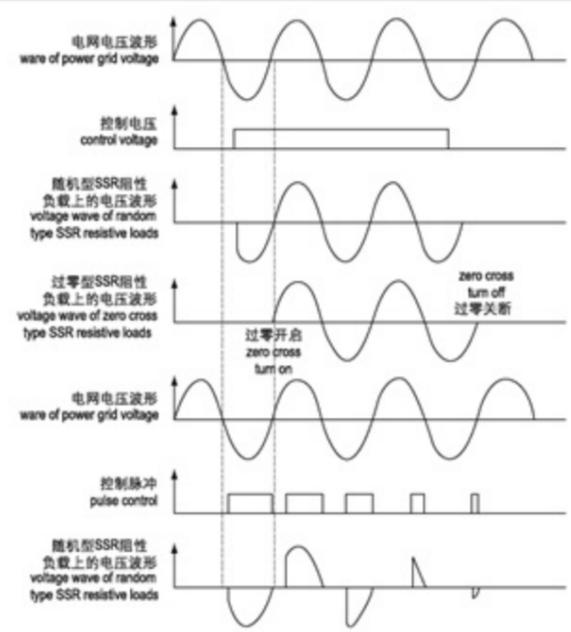
6、3phase CSR Load control Connect
三相负载控制连接



7、3phase Motor positive and reverse
三相电机正反转电路



应用参数 Specification	输入 input parameter				输出 output parameter				安全负载 Safe Load		
	控制电压 Control Voltage	控制电流 Control Current	启动电流 Start Current	关闭电压 Close Voltage	工作电流 Operating Current	工作电压 Operating Voltage	绝缘电压 Insulate voltage	保护 Protection Over Voltage Over Current		阻性负载 Resistive Load	感性负载 Inductive Load
PCSR	DC/AC	4-32 V DC	<20mA	≥5mA	≤1.5V DC	10-100A	24-480 V AC	≥2500 V AC	RC MOV Fast Fuse	60%	40%
	AC/AC	80-250 V AC	<30mA	≥5mA	≤10V AC	10-100A	24-480 V AC				
	Industry class	4-32 V DC	<20mA	≥5mA	≤1.5V DC	100-800A	24-480 V AC				
	DC/DC	3-32 V DC	<25mA	≥5mA	≤1.5V DC	10-40A	12-250 V DC				
PCTR	4-32 V DC	<30mA	≥9mA	≤2.5V DC	10-120A	24-480 V AC	二极管保护 Diode	RC MOV Fast Fuse			
固态调压器 Solid State Voltage Regulator	电位器 Potentiometer 500KΩ/1/4W				10-40A	10-250V AC	RC MOV Fast Fuse				



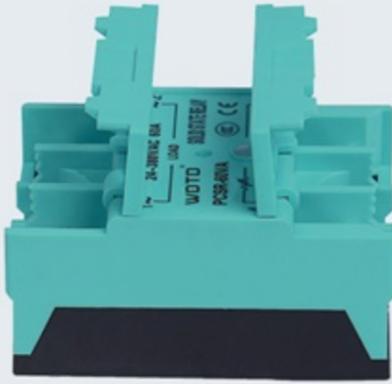
内置阻容吸收保护回路 RC: Built-in resistance capacity absorption circuit.
外部并联压敏电阻 MOV: External shunt metal oxide varistor.

使用注意事项 Notes

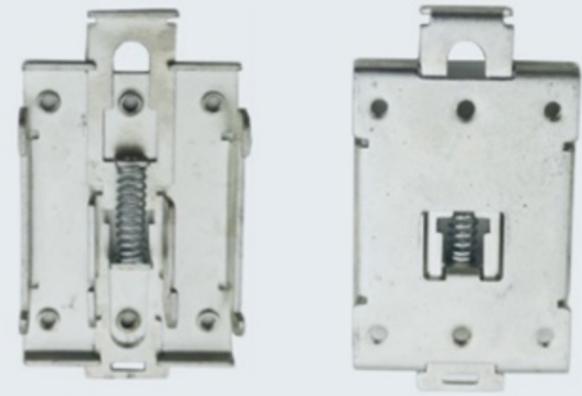
1. 严禁短路负载，可以使用快速熔断器。Strictly prohibit for load short circuit.Can use fast fuse.
2. 长期工作不能超过额定值的70%。Ling time working current can't over 70% of the nominal value.
3. 散热器温度不能超过与75℃。Heatsink temperature can't over 75℃.
4. 用于感性负载，加压敏电阻保护更好。Use at inductive load area, adding varistor for protect is better.

各种负载推荐值(常温) Recommended value of load type (Room temperature)

负载类型 Load type	纯电阻 Pure Resistance	电热丝 Electric hot wire	白炽灯泡 Incandescent lamp	变压器 / 电磁铁 Transformer/ Electromagnet	单相交流电机 1 phase AC motor	三相交流电机 3 phase AC motor
负载值 value of load	100%	50-70%	35-50%	25-40%	12-24%	18-33%



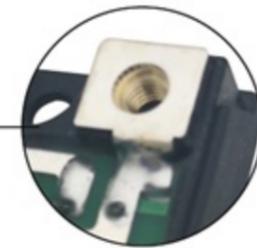
专利设计，采用一体式翻盖保护造型，操作方便，防护罩不易丢失。
Patent design, using the cover protection model, easy to operate



PCSR-B01
导轨卡件 CSR clamp



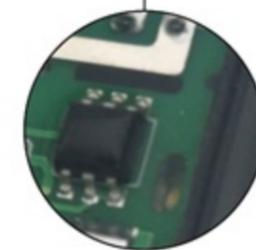
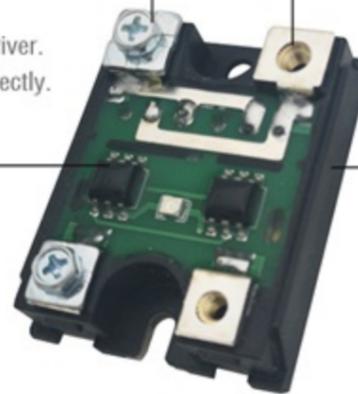
高品质螺丝，六角套筒或螺丝刀均可进行操作。一体式固定垫片，无接线端子的铜线也可直接使用。
High quality screw, can operate by hexagonal sleeve or screwdriver. Integral fixed gasket, wire without terminal can also be used directly.



内部结构设计功率器件直接导通安装紫铜电极，过电流能力强。辅助铜卡件，螺纹精准并能辅助增强导电能力。
Power device directly conducts with copper electrode, which has strong overcurrent ability. Brass fasteners with precise threads help to enhance conductivity.



SMT双面板全贴片工艺，视觉检查杜绝虚焊，双光耦控制+下限保护设计，精选进口电子元器件，优选美国Crydom和法国Celduc的驱动优势，抗干扰能力强，控制精准。
SMT double panel full patch process, optimize the driving advantages of Crydom and Celcu, strong anti-interference ability, accurate control.



真空灌封进口透明硅凝胶，导热性能优越，绝缘特性强。多层密封设计，防水 防尘 抗盐雾，可在多种严苛环境下稳定使用。

Transparent silicone gel has excellent thermal conductivity and strong insulation characteristics. Multi-layer sealing design, waterproof, dustproof and salt fog resistance, can be used stably in harsh environments.

规格 Specifications

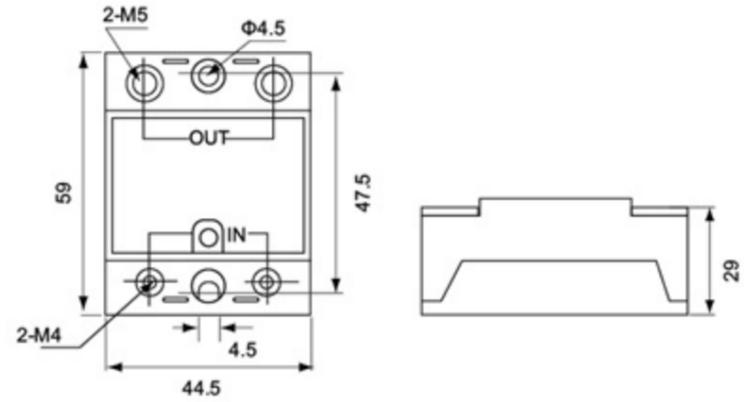
型号 Model	PCSR-DA		PCSR-AA		PCSR-VA	PCSR-DD	PCTR-DA	
	PCSRE-DA		PCSRE-AA		PCSRE-VA	PCSRE-DD	PCTRE-DA	
负载电流 Operation Current	10A,25A,40A	60A,80A,100A	10A,25A,40A	60A,80A,100A	10A,25A,40A	10A,25A,40A	10A,25A,40A	60A,80A,100A,120A
负载电压 Operation Voltage	24-480V AC		24-480V AC		10-250V AC	12-250V DC	24-480V AC	
控制电压 Control Voltage	4-32V DC		80-250V AC		500KΩ/1/4W	3-32V DC	4-32V DC	
控制电流 Control Current	DC 3-25mA		AC≤12mA		/	DC 3-25mA	DC 3-25mA	
V _{TM} 通态压降	≤1.5V	≤1.5V	≤1.5V	≤1.5V	≤1.5V	≤2.3V	≤1.5V	≤1.5V
I _{RRM} 漏电流	≤10mA	≤20mA	≤10mA	≤20mA	≤5mA	≤5mA	≤15mA	≤15mA
T _O 关断时间	≤10mS		≤10mS		≤10mS	≤10mS	≤10mS	
V _{iso} 绝缘电压	2500V AC		2500V AC		2500V AC	2500V AC	2500V AC	
R _{iso} 绝缘电阻	1000mΩ 500V DC		1000mΩ 500V DC		1000mΩ 500V DC	1000mΩ 500V DC	1000mΩ 500V DC	
T _j 工作温度	-30~+80℃		-30~+80℃		-30~+80℃	-30~+80℃	-30~+80℃	
Weight 重量	90g	140g	90g	140g	90g	90g	350g	450g

外观和尺寸 Appearance and Dimension

PCSR-DA



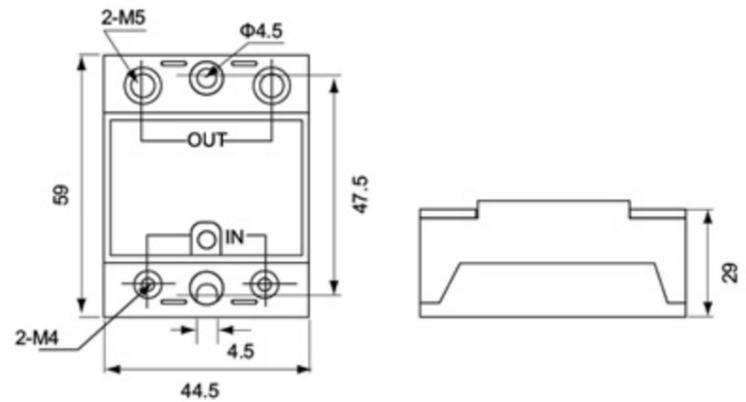
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 - PCSR-25DA
 - PCSR-40DA
 - PCSR-60DA
 - PCSR-80DA
 - PCSR-100DA



PCSR-AA



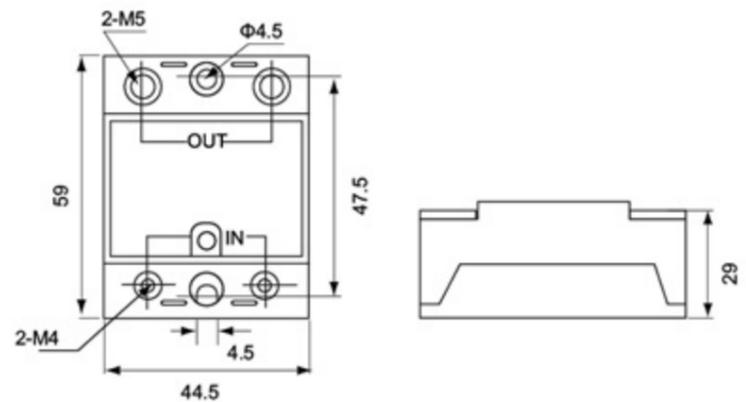
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- PCSR-10AA
 - PCSR-25AA
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 - PCSR-100AA



PCSR-VA



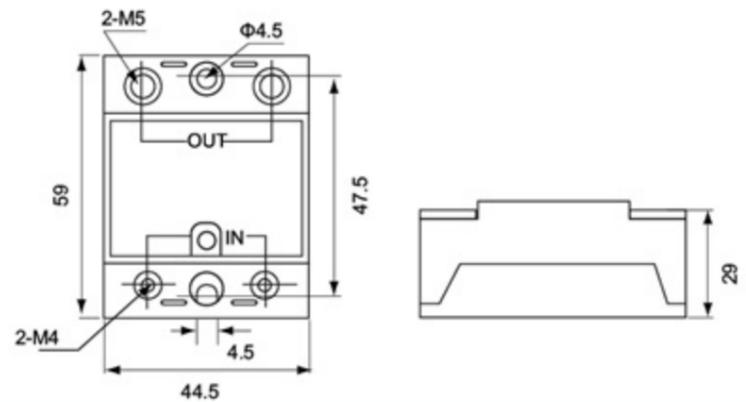
- 产品型号Model
- PCSR-10VA
 - PCSR-25VA
 - PCSR-40VA



PCSR-DD



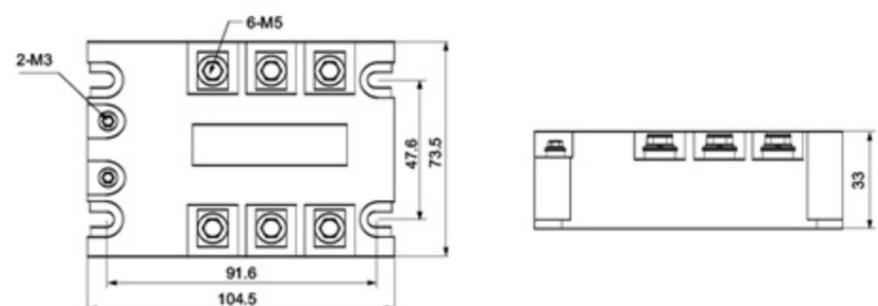
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- PCSR-10DD
 - PCSR-25DD
 - PCSR-40DD



PCTR-DA



- 产品型号Model
- PCTR-10DA
 - PCTR-25DA
 - PCTR-40DA
 - PCTR-60DA
 - PCTR-80DA
 - PCTR-100DA
 - PCTR-120DA

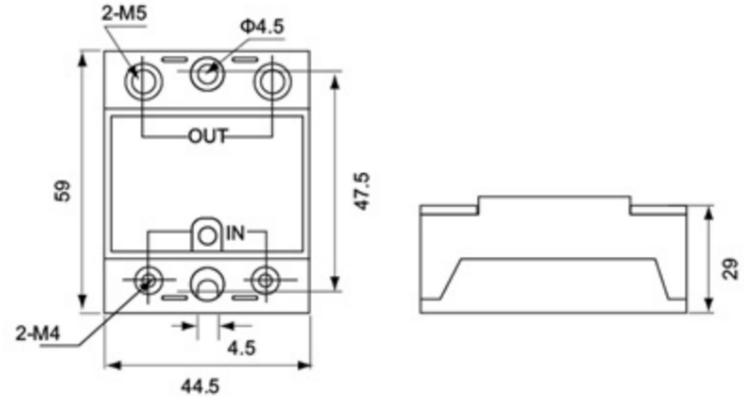


外观和尺寸 Appearance and Dimension

PCSRE-DA



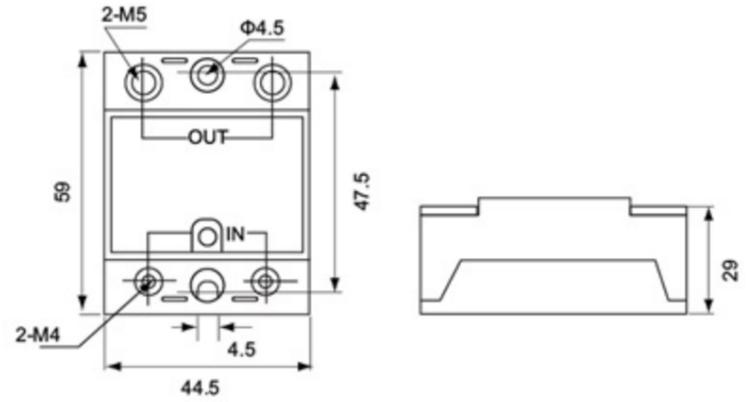
- 产品型号Model
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 PCSRE-25DA
 PCSRE-40DA
 PCSRE-60DA
 PCSRE-80DA
 PCSRE-100DA



PCSRE-AA



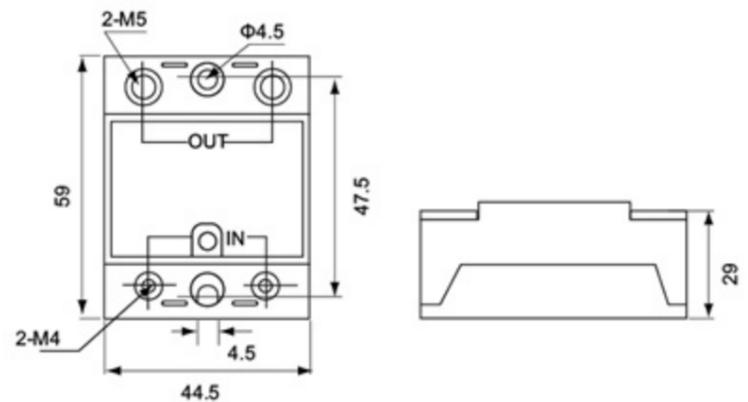
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 PCSRE-40AA
 PCSRE-60AA
 PCSRE-80AA
 PCSRE-100AA



PCSRE-VA



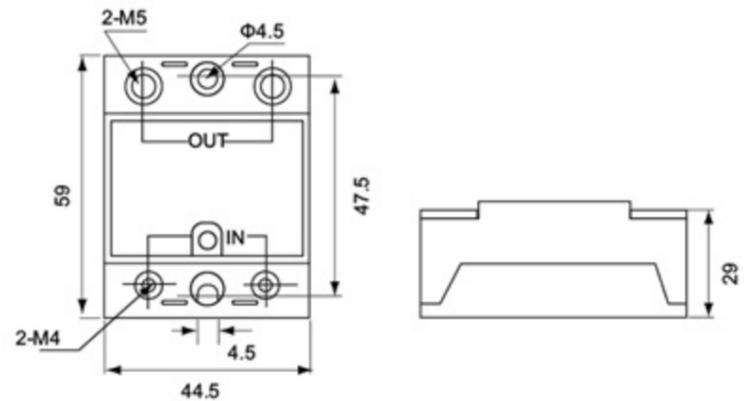
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 PCSRE-40VA



PCSRE-DD



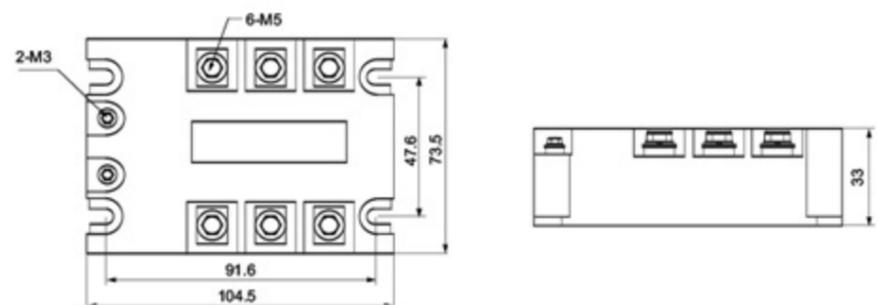
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 PCSRE-40DD



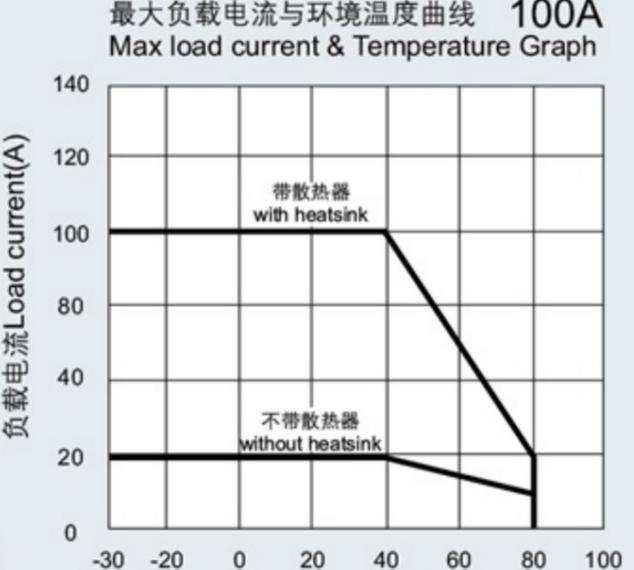
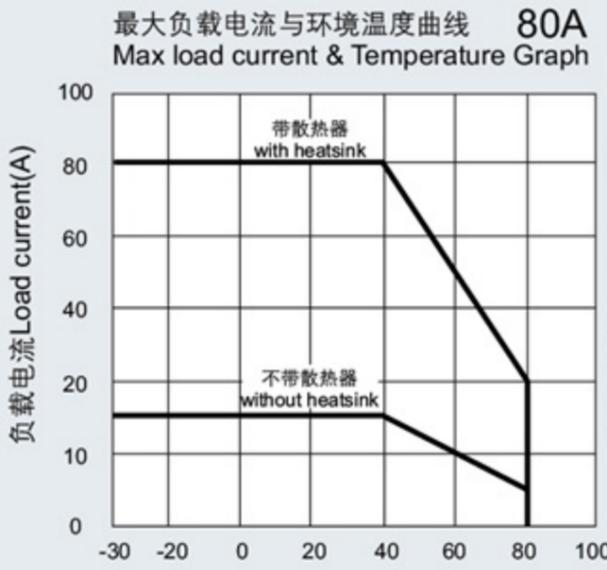
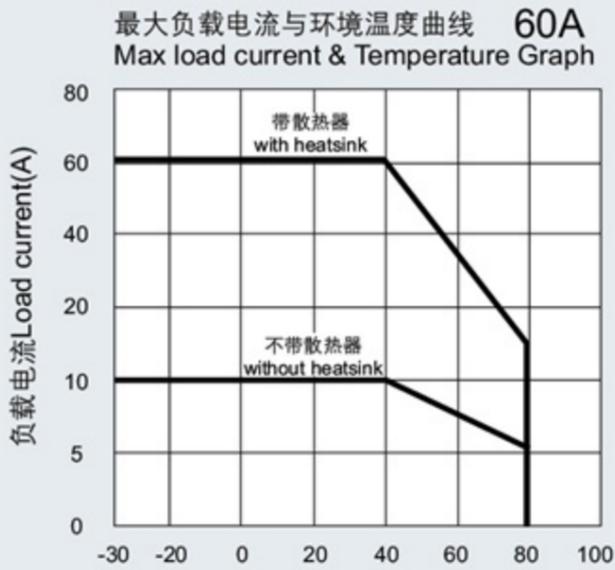
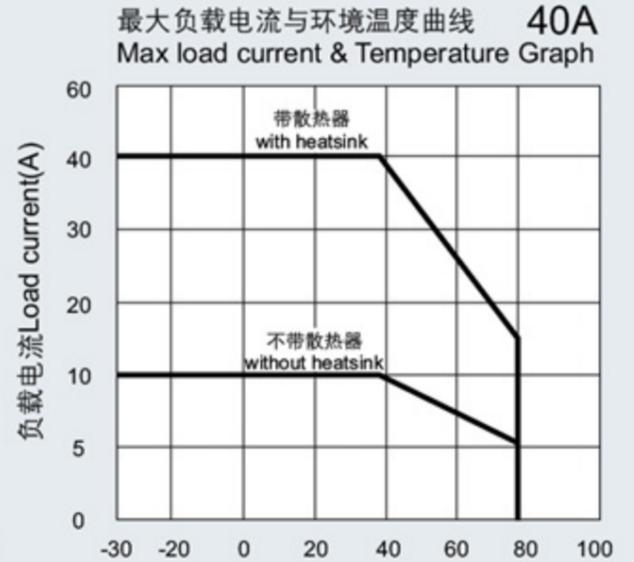
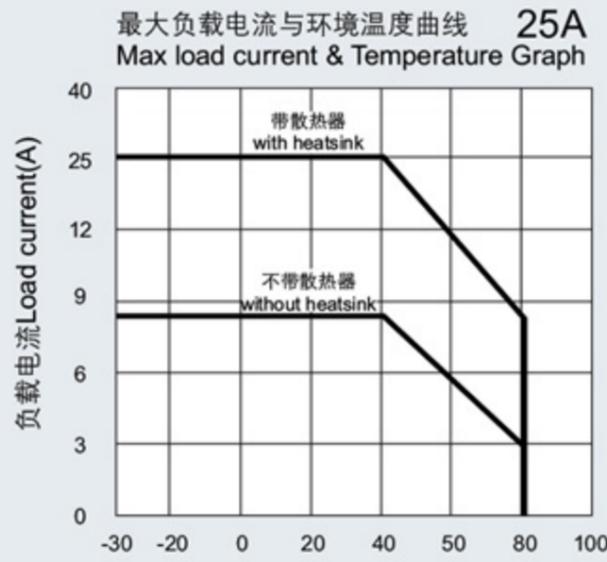
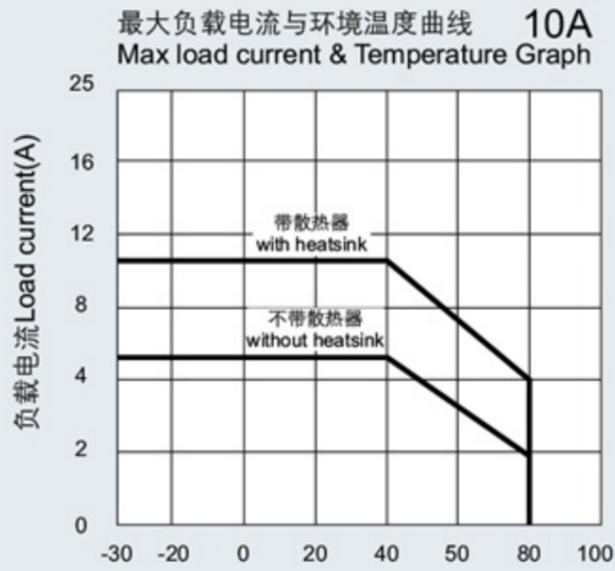
PCTRE-DA



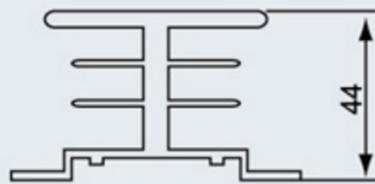
- 产品型号Model
 PCTRE-10DA
 PCTRE-25DA
 PCTRE-40DA
 PCTRE-60DA
 PCTRE-80DA
 PCTRE-100DA
 PCTRE-120DA



固态继电器耗散功率曲线图 Dissipative Power Curve of PCSR

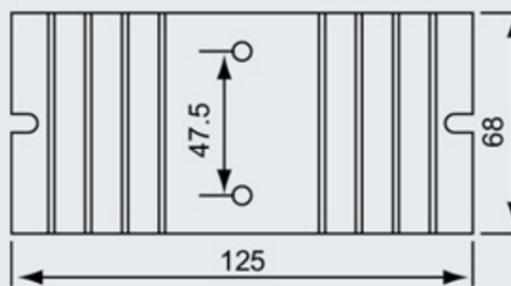
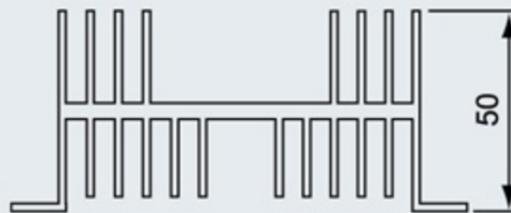


固态继电器用散热器 State Relay Heatsink



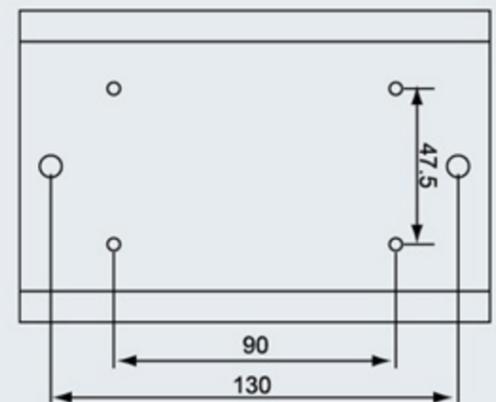
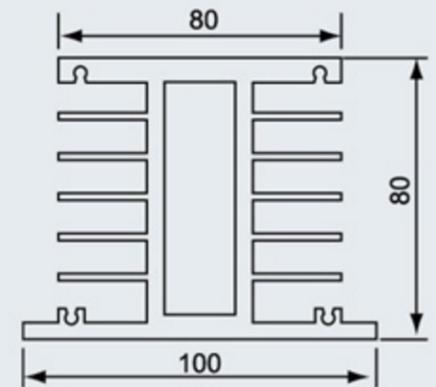
PCSR-A01

(For PCSR10A-40A)



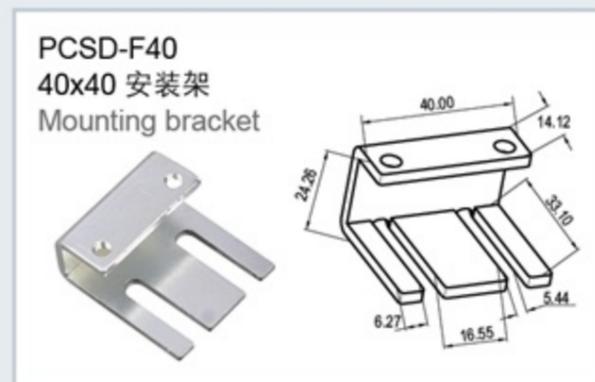
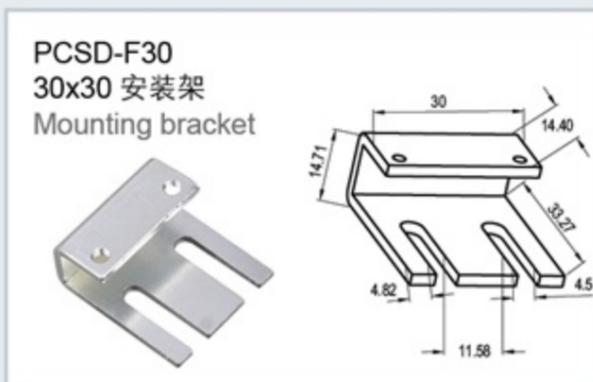
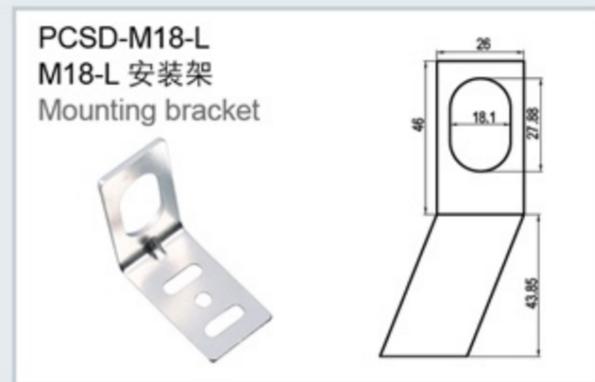
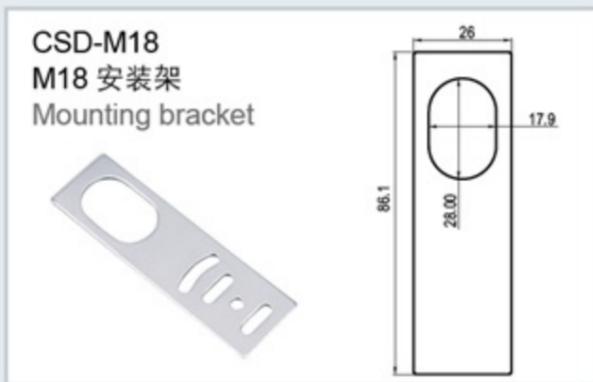
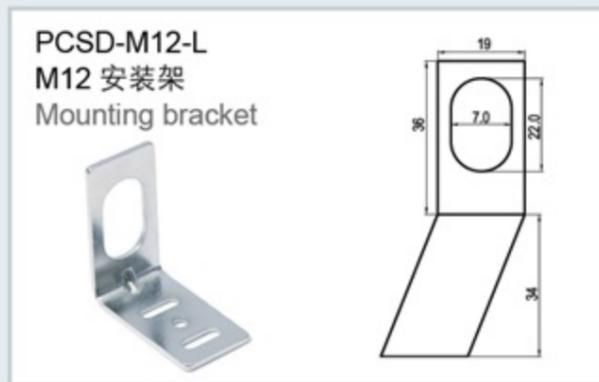
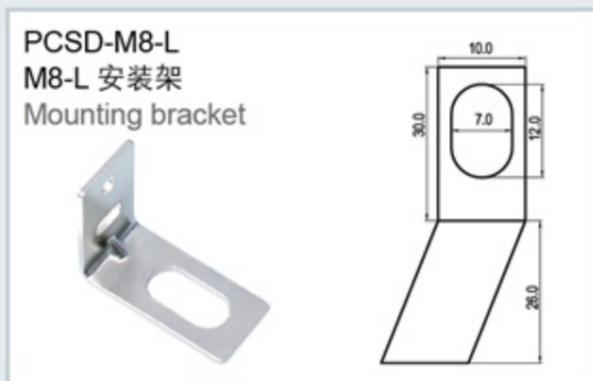
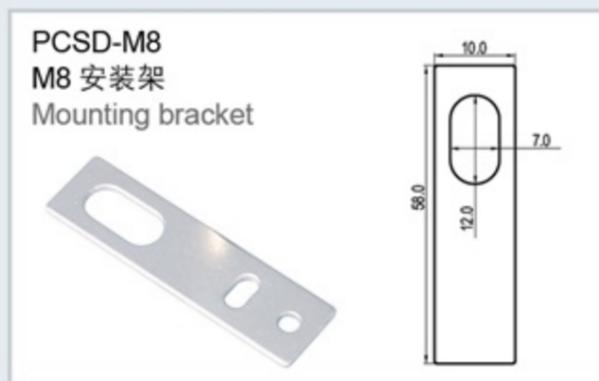
PCSR-A02

(For PCSR60A-100A)



PCSR-A03

(For CTR10A-120A)



XB2 按钮开关及指示灯

Push-button switch and indicator

概述 Overview

XB2、XB4、XB5 系列按钮适用于交流50Hz 或60Hz,额定工作电压至380V及直流工作电压至250V的工业控制电路中, 作为电磁起动器、接触器、继电器及其它电气线路的控制之用。

XB2、XB4、XB5 series buttons are suitable for industrial control circuits with AC 50 Hz or 60 Hz, rated working voltage up to 380 V and DC working voltage up to 250 v. they are used for controlling electromagnetic starters, contactors, relays and other electrical circuits.

按钮盒 Button box

防护等级 Protection level	IP40, 可定做 IP65 IP40, customized IP65
电缆入口 Cable entry	敲落孔, 适用于 PG13.5 电缆套 Knockout hole for PG13.5 cable sleeve

灯珠规格 Base specifications

灯珠类型 LED type	LED 发光二极管 LED light emitting diode		
额定电压 LED type	AC/DC 6V	AC/DC 12V	AC/DC 24V、36V、48V
	AC/DC 110V	AC/DC 220V	AC380V
灯珠寿命 LED Life	≥5 万小时 More than 50000 hours		
灯珠颜色 LED color	W G R Y B		
电压极限 Voltage limit	0.85U _e ≤ U ≤ 1.1U _e		

部分材料 Some materials

型号 Model	头部 head	中座 Middle seat	触点 Contact	开关壳体 Switch housing
XB2-B 金属系列 XB2-B metal series	锌合金 Kirsite	锌合金 Kirsite	银合金 Silver alloy	PBT
XB2-E 金属系列 XB2-E metal series	尼龙 Nylon	尼龙 Nylon		尼龙 Nylon
XB4-B 金属系列 XB4-B metal series	锌合金 Kirsite	锌合金 Kirsite		尼龙 Nylon
XB5-A 金属系列 XB5-A metal series	尼龙 Nylon	尼龙 Nylon		尼龙 Nylon

特性 Characteristic

环境 Environment	
符合标准 Meet the standard	GB 14048.5-2008、IEC 60947-5-1
环境温度 Ambient temperature	-25℃ ~+55℃
抗振性 Vibration resistance	<500Hz, 振幅约 1.0mm < 500Hz, amplitude about 1.0mm
抗冲击 Shock resistance	≥10g
防护等级 Protection level	IP40 可定做 IP65 IP40 can be customized to IP65

技术参数 Technical parameter

额定绝缘电压 U _i (V) Rated insulation voltage U _i (V)	415				
约定自由空气发热电流 I _{th} (A) Agreed free air heating current I _{th} (A)	10				
额定工作电压 U _e (V) Rated working current I _e (A)	-	380	250	240	125
额定工作电流 I _e (A) Rated working current I _e (A)	AC-15	2.5	-	3	-
	DC-13	-	0.27	-	0.55

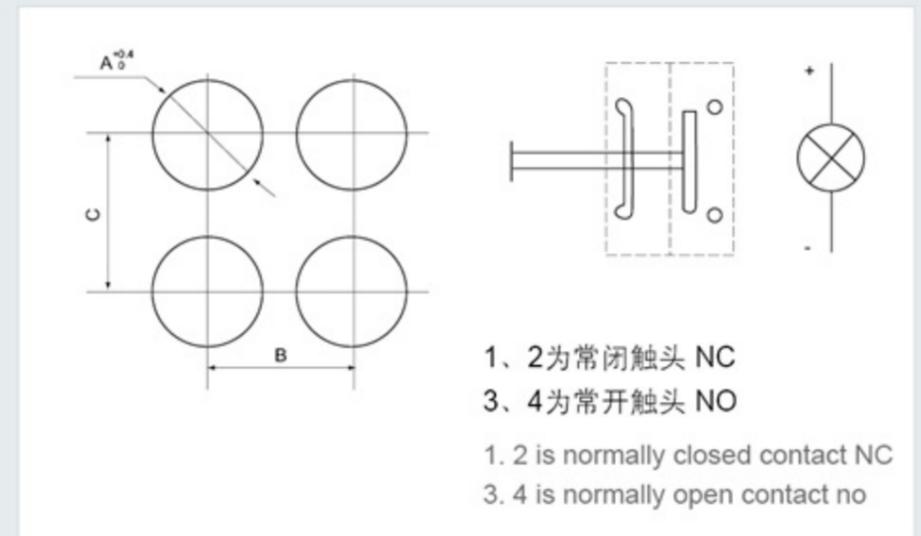
触点特性 Contact characteristic

触头动作 Contact action	慢动 (常闭或常开); 常闭触点为直接断开 Slow motion (normally closed or normally open); The normally closed contact is directly open
接阻电阻 Meet the standard	≥50mΩ
机械寿命 Mechanical life	-25℃ ~+55℃
电寿命 Electrical life	<500Hz, 振幅约 1.0mm < 500Hz, amplitude about 1.0mm
短路保护 Shock resistance	RT16-10A
接线 Connection	螺旋压入式端子, 接线能力: 最小 1x0.5mm ² ; 最大, 带或不带接线端子片; 2x1.5mm ² 或 1x2.5mm ² Screw in terminal, wiring capacity: minimum 1x0.5mm ² ; Maximum, with or without terminal strip; 2x1.5mm ² or 1x2.5mm ²

安装孔产品尺寸图

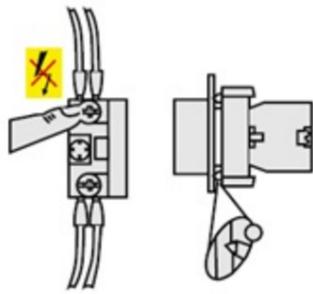
安装面板厚度为1~6mm

The thickness of the mounting panel is 1 ~ 6mm

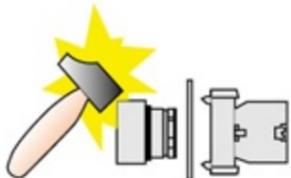


类型 Type	A	B	C	备注 Remarks
普通式 Common form	Ø22.3	>50	>35	1、单位: mm 2、B 和 C 均值最小 产品尺寸图 1. Unit: mm 2. Means of B and C minimum product size diagram
旋钮 Knob		>50	>35	
蘑菇式 Mushroom style		>50	>42	
大蘑菇式 Big mushroom style		>70	>70	

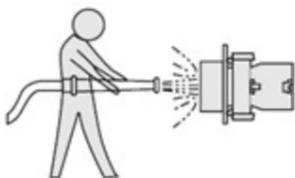
特点 characteristic



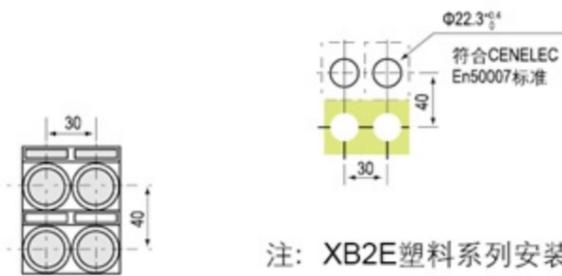
- 舒适的手指按压位置和开关拨动操作
- 功能识别
- 自动接地
- 防手指触电设计
- The finger of comfort press to press position and switch to turn operation
- The function identify
- The auto connect ground
- Defend the finger get an electric shock again



- 镀铬金属头和安装底座
- 防震的螺钉端子
- 坚固、可靠、长达3百万次的机械寿命
- 长达5万小时的LED指示灯使用寿命
- Plate chrome metals a head and install a base
- The quakeproof blot carry son
- Hard,credibility, as long as 3,00,000 time machine life span
- As long as 50,000 hours of the service life of the LED indicator

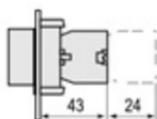


- 高防护的等级IP65
- 安装快速简单，最终形式由您决定
- High protection class IP65
- Install fast simple, end from you decision

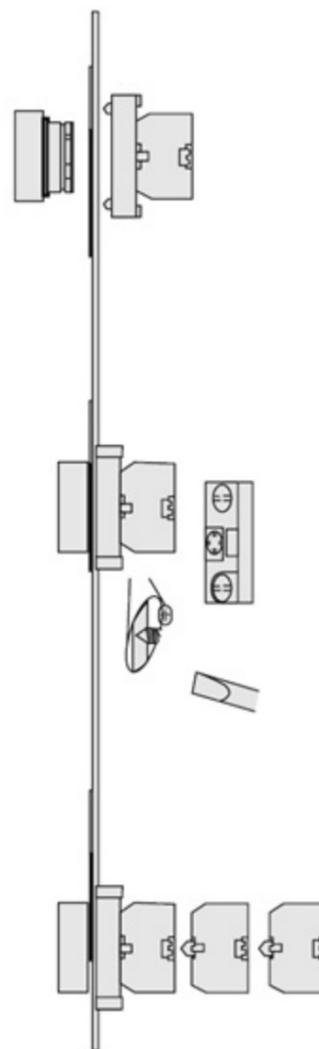


注: XB2E塑料系列安装面板厚度 1-5mm

Note: The XB2E plastics series install front-panel thickness 1-5mm



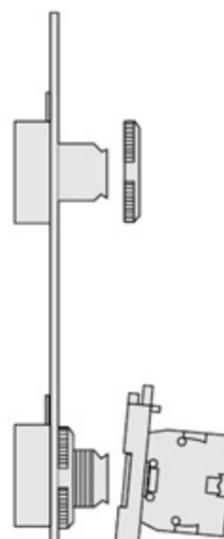
- 面板表面最小
- 安装深度最浅
- The front-panel surface is minimum
- Install depth the most shallow



- 整体型号XB2
- 按钮头-触点基座组装
- 按钮头自动保持在开孔中
- 按钮头旋转一定角度，卡入触点基座
- Button head-touch some base a construction
- The button head hold automatic is in open the bore
- The button head revolve certainangle, card go into touch some base

- 2个金属螺钉固定
- 防震
- 自动接地
- 敞开式接线端，无需预松螺钉
- 2 metals bolt fix quake proof
- The auto connect ground
- The open type connect line to carry and have never need to prepare loose bolt

- 电气功能
- 最多可装1-6付触点模块
- Electricity function
- Most can pack 1-6 pay to touch some mold piece



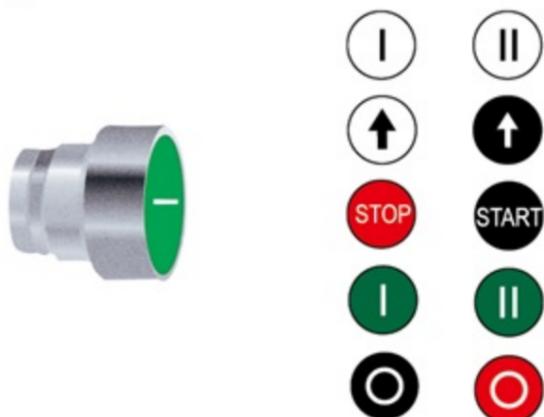
- 高防护等级IP65
- 按钮头的安装
- 后端螺圈固定
- High protection class IP65
- Button head of install
- The empress carry a luo turn fix



- 触点基座卡式安装
- 无需任何工具
- 快捷、牢固
- Touch some basecassette install
- Do not need to any tool
- Fast and firm



齐全的标识标牌—为您量身定做带功能符号的按钮
Well-found marking mark card-tailor for you button of take the function sign



标签标牌 Label



不同选择

Choice

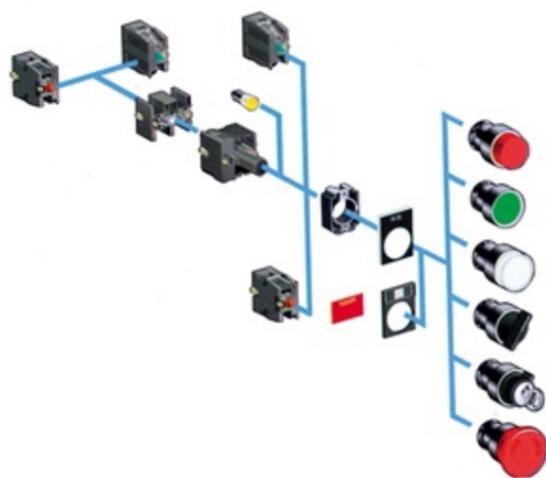
- 大小
- 形状
- Size
- Shape
- 颜色
- 文字
- Color
- Words

根据需要可任意定制

Can arbitrarily make to order according to the demand

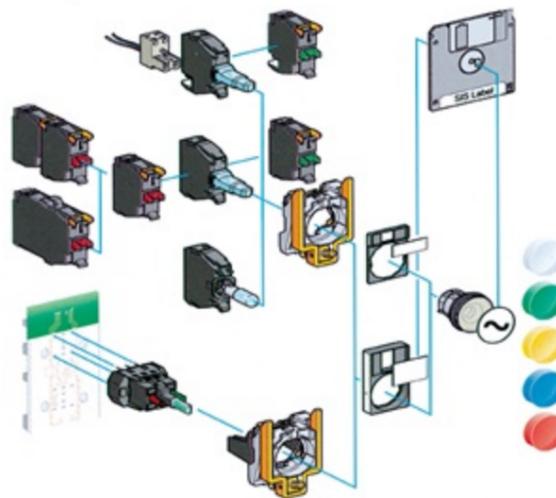
XB2系列产品组成及配件展示

XB2 series products and accessories show



XB4/B5系列产品组成及配件展示

XB4/B5 series products and accessories show



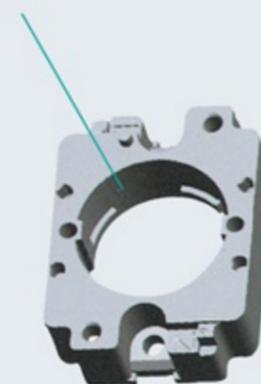
多层触点模块型号的重定义说明

Heavy definition of resistant types that most layer contact module

左向安装 Left to install		右向安装 Right to install		
型号 Model	含义	型号 Model	含义	
第一层 First floor	1	左侧安装一片 BE101 Install a piece of BE101 on the left	6	右侧安装一片 BE101 Install a piece of BE101 on the right
	2	左侧安装一片 BE102 Install a piece of BE102 on the left	7	右侧安装一片 BE102 Install a piece of BE102 on the right
	3	安装两片 BE101 Install two pieces of BE101		
	4	安装两片 BE102 Install two pieces of BE102		
	5	左侧 BE101, 右侧 BE102 BE101 on the left, BE102 on the right	9	左侧 BE102, 右侧 BE101 BE102 on the left, BE101 on the right
第二层 Second floor	1	左侧安装一片 BE101 Install a piece of BE101 on the left	6	右侧安装一片 BE101 Install a piece of BE101 on the right
	2	左侧安装一片 BE102 Install a piece of BE102 on the left	7	右侧安装一片 BE102 Install a piece of BE102 on the right
	3	安装两片 BE101 Install two pieces of BE101		
	4	安装两片 BE102 Install two pieces of BE102		
	5	左侧 BE101, 右侧 BE102 BE101 on the left, BE102 on the right	9	左侧 BE102, 右侧 BE101 BE102 on the left, BE101 on the right
第三层 Third floor	类推 Analogize		类推 Analogize	

以此中座定位钉方向为参照，定位钉(1,3位)为左向，(2,4)为右向

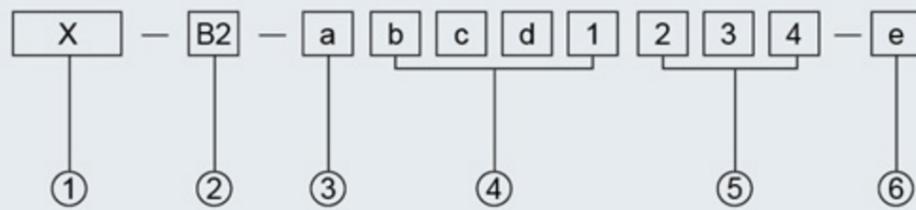
Based on the orientation of the central seat locating nail, the locating nail (1,3 position) is left and (2,4) is right



举例说明: XB2-BD2396, 两档旋钮, 3层5片模块。第一层为两片BE101, 第二层左侧装BE102, 右侧装BE101, 第三层右侧装BE101。

For example: XB2-BD2396, two-step knob, 3-layer 5-piece module. The first layer is composed of two pieces of BE101, the second layer is equipped with BE102 on the left, BE101 on the right, and the third layer is equipped with BE101 on the right.

型号说明 Model Number Structure



项目 Item	代号 Code	说明 Description
① 百能堡所认定按钮开关型号 The type of button switch identified by WDTD	X	开关型号 Switch type
② 设计代号 Design code	B2	B2、B4、B5 系列 B2, B4, B5 series
③ 按钮材质 Button material	a	金属 Metal 塑料 Plastic
④ 操作机构代码 Operating mechanism code	b、c、d、1	操作机构代码 Operating mechanism code
⑤ 连接形式 Connecting format	2、3、4	常开常闭触头数、颜色等 Normally open and normally closed contacts, color, etc
⑥ 结构分类 Structure classification	C	单独头部 Single head
	Z	带基座 A pedestal

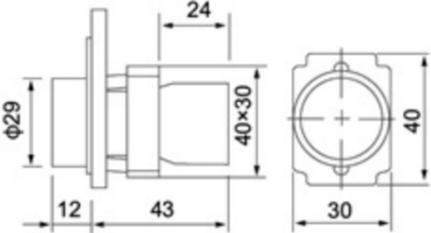
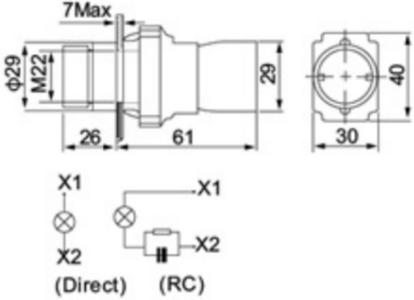
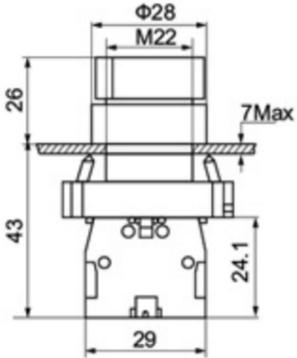
表一 Table 1

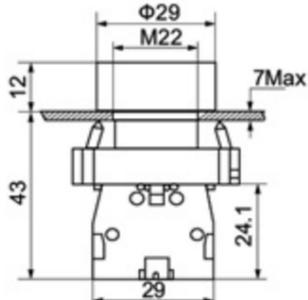
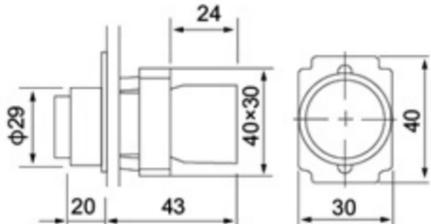
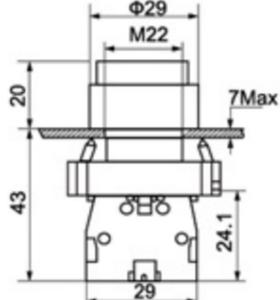
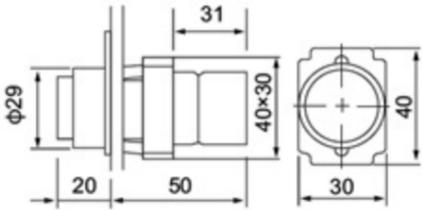
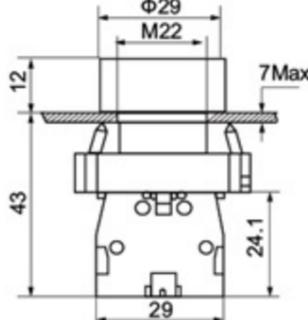
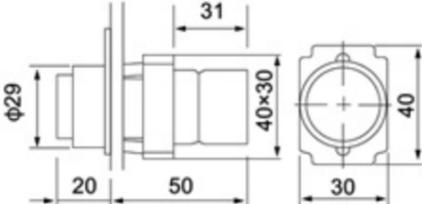
操作机构代码 Operating mechanism code	字段说明 Fields that	操作机构代码 Operating mechanism code	字段说明 Fields that	操作机构代码 Operating mechanism code	字段说明 Fields that
A	平头按钮 Flat button	LG	高平头按钮 Button with high flat head	A1867(印刷) A1867 (printing)	① 白面灰电梯上
L	凸头按钮 Convex head button	C	直径 40 自复蘑菇头按钮 Diameter 40 self-replicating mushroom head button	A2869(印刷) A2869 (printing)	② 黑面灰电梯上
Z	带自锁平头按钮 Flat-head button with self-locking	R	直径 60 自复蘑菇头按钮 Diameter 40 self-replicating mushroom head button	A5271(印刷) A5271 (printing)	③ 黄面黑铃铛
P	带防水帽平头按钮 Flat head button with waterproof cap	T	按拉式蘑菇头按钮 Push the pull button on the mushroom head	A61791(印刷) A61791(printing)	④ 蓝面白上下箭头
A3151	⑤ 绿面单白杠印刷按钮 (52 模压按钮) Green face single white bar printing button (52 molded button)	X	直径 60 按拉式蘑菇头按钮 Diameter 60 press the pull mushroom head button	A6873(印刷) A6873(printing)	⑥ 蓝面灰 ↑ ↓
A3153	⑥ 绿面双白杠印刷按钮 (54 模压按钮) Green face double white bar printing button (54 molded button)	S4	直径 30 急停自锁蘑菇头按钮 Diameter 30 emergency stop self-locking Mushroom button	A6877(印刷) A6877(printing)	⑦ 蓝面灰 ↓ ↑
A3159	⑦ 绿面 START 印刷按钮 (60 模压按钮) Green face Start printing button (60 molded button)	S5	直径 40 急停自锁蘑菇头按钮 Diameter 30 emergency stop self-locking Mushroom button	A5275(印刷) A5275(printing)	⑧ 黄面黑灯

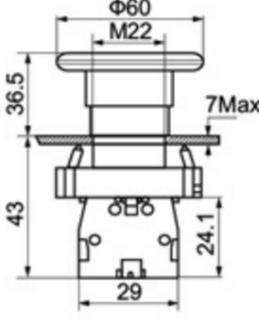
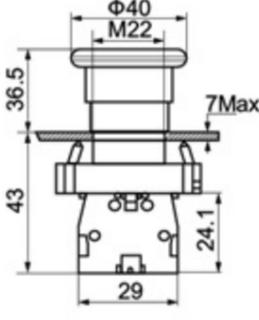
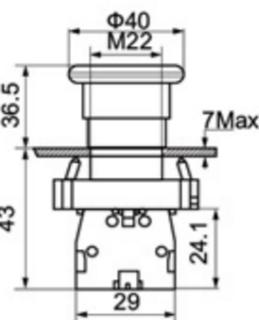
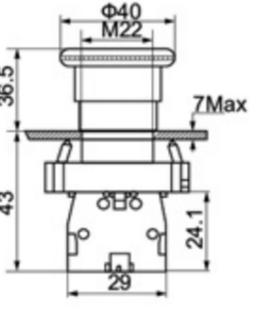
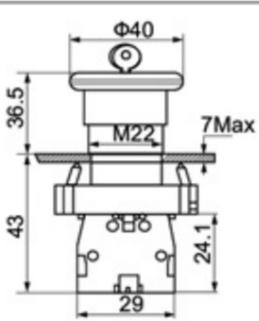
A1255	 白面黑箭印刷按钮 (56 模压按钮) Printed button with white face and black arrow (56 molded button)	S6	直径 60 急停自锁 蘑菇头按钮 Diameter 60 emergency stop self-locking Mushroom button		
A2155	 黑面白箭印刷按钮 (56 模压按钮) Printed button with black face and white arrow (56 molded button)	S1	直径 40 钥匙急停蘑菇头按钮 Diameter 40 key emergency stop mushroom head button		
A4157	 红面白圈印刷按钮 (58 模压按钮) Printed button with red face and white circle (58 molded button)	D2	∨ 2 位选择开关 2-bit selector switch		
A4161	 红面 STOP 印刷按钮 (62 模压按钮) Red face STOP printing button (62 molded button)	D3	∨ 3 位选择开关 3-bit selector switch		
A2163	 黑面白乌龟印刷按钮 (64 模压按钮) Black face white turtle printing button (64 molded button)	D4	∨ 两档右复位选择开关 Two-speed right reset selector switch		
A2165	 黑面白兔子印刷按钮 (66 模压按钮) White rabbit printing button with black face (66 molded button)	D5	∨ 三档两边复位选择开关 Reset selector switch on both sides of third gear		
K2	2 档带灯旋钮 2 gear with light knob	D7	∨ 三档左复右锁选择开关 Three-way left and right lock selector switch		
K3	3 档带灯旋钮 3 gear with light knob	D8	∨ 三档左锁右复选择开关 Three speed left lock right answer selector switch		
W3	带灯平钮 With lamp button	J2	∨ 2 位长柄选择开关 (其它型号同 BD) 2-bit long handle selector switch (Other models are the same as BD)		
W4	带灯蘑菇头按钮 Mushroom head button with light	G2	∨ 2 档左拔钥匙选择开关 Left pull key selector switch in 2nd gear		
Z3	带灯自锁平头按钮 Flat head button with light self-locking	G4	∨ 2 档两拔钥匙选择开关 Two-pull key selector switch in 2 gear		
L83	两平双键按钮 Two flat double key buttons	G6	∨ 左拔右复钥匙选择开关 Left and right key selection switch		
L84	高低双键按钮 High and low double button	G3	∨ 3 档中拔钥匙选择开关 Pull the key selector switch in 3rd gear		
WB3	两平双键带灯按钮 Two flat double keys with light button	G5	∨ 3 档中拔双复钥匙选择开关 Pull double double key selector switch in 3rd gear		
WB4	高低双键带灯按钮 High and low double keys with light button	G0	∨ 3 档三边拔钥匙选择 3 level three sides pull the key selection		
AF	高防护平头按钮 Flat head button with high protection	G7	∨ 3 档左复右锁钥匙选择 Third gear left double right lock key selection		
DF	高防护选择开关 High protection selector switch	WF	高防护带灯平头按钮 Flat button for high protective band light		

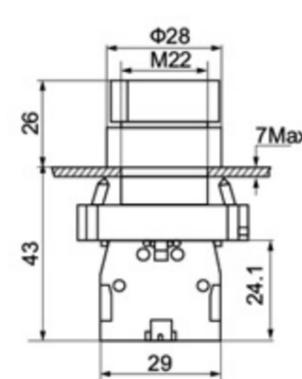
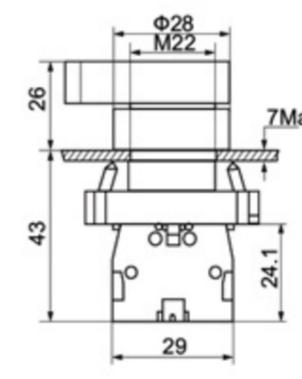
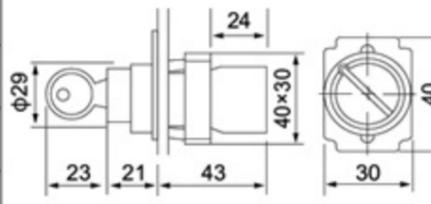
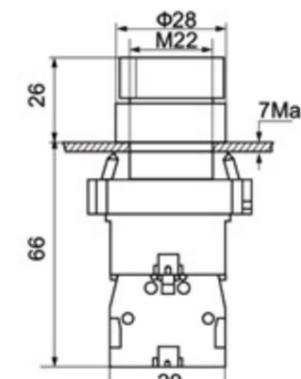
注：带标志按钮开关BA后第一位表示按钮颜色，第二位表示图案颜色，第三、四位表示图案序号，其中单数为印刷，双数为模压。

Note: After the button switch BA with logo, the first digit represents the color of the button, the second digit represents the color of the pattern, and the third and fourth digit represent the serial number of the pattern. The singular digit refers to printing, and the even digit refers to molding.

外形图 Picture	品名 Product name	型号 Model	颜色 Color	触点类型 Contact type		产品尺寸图 Structure drawing
	平头按钮 Flat push button switch 高防护 IP67	XB2-BAF11	○ W	1	-	
		XB2-BAF21	● BL	1	-	
		XB2-BAF31	● G	1	-	
		XB2-BAF51	● Y	1	-	
		XB2-BAF61	● B	1	-	
		XB2-BAF22	● BL	-	1	
		XB2-BAF42	● R	-	1	
		XB2-BAF35	● G	1	1	
		XB2-BAF45	● R	1	1	
	直接式 Push button switch light The direct type 高防护 IP67	XB2-BWF3161	○ W	1	-	
		XB2-BWF3361	● G	1	-	
		XB2-BWF3462	● R	-	1	
		XB2-BWF3561	● Y	1	-	
		XB2-BWF3661	● B	1	-	
	阻容式 Push button switch light RC type 高防护 IP67	XB2-BWF3171	○ W	1	-	
		XB2-BWF3371	● G	1	-	
		XB2-BWF3472	● R	-	1	
		XB2-BWF3571	● Y	1	-	
		XB2-BWF3671	● B	1	-	
	2 位选择按钮开关 2 Position select switch 高防护 IP65	XB2-BDF21		1	-	
		XB2-BDF25		1	1	
		XB2-BDF41		1	-	
		XB2-BDF45		1	1	
	3 位选择按钮开关 3 Position select switch 高防护 IP65	XB2-BDF33		2	-	
		XB2-BDF53		2	-	

外形图 Picture	品名 Product name	型号 Model	颜色 Color	触点类型 Contact type		产品尺寸图 Structure drawing
	平头按钮 Flat push button switch	XB2-BA11	○ W	1	-	
		XB2-BA21	● BL	1	-	
		XB2-BA31	● G	1	-	
		XB2-BA51	● Y	1	-	
		XB2-BA61	● B	1	-	
		XB2-BA22	● BL	-	1	
		XB2-BA42	● R	-	1	
		XB2-BA35	● G	1	1	
		XB2-BA45	● R	1	1	
	凸头按钮 Extended push button switch	XB2-BL21	● BL	1	-	
		XB2-BL31	● G	1	-	
		XB2-BL51	● Y	1	-	
		XB2-BL61	● B	1	-	
		XB2-BL22	● BL	-	1	
		XB2-BL42	● R	-	1	
		XB2-BL35	● G	1	1	
		XB2-BL45	● R	1	1	
	高平头按钮 High head push button switch	XB2-BLG21	● BL	1	-	
		XB2-BLG31	● G	1	-	
		XB2-BLG51	● Y	1	-	
		XB2-BLG61	● B	1	-	
		XB2-BLG42	● R	-	1	
	带罩按钮 (带防水帽) Push button switch with waterproof cover	XB2-BP21	● BL	1	-	
		XB2-BP31	● G	1	-	
		XB2-BP51	● Y	1	-	
		XB2-BP61	● B	1	-	
		XB2-BP42	● R	-	1	
		XB2-BP35	● G	1	1	
		XB2-BP45	● R	1	1	
	平头按钮 Flat push button switch	XB2-BA31511(3311)	⬆	1	-	
		XB2-BA12551(3341)	⬆	1	-	
		XB2-BA21551(3351)	⬆	1	-	
		XB2-BA41572(4322)	● R	-	1	
		XB2-BA41612(4342)	● STOP	-	1	
		XB2-BA41575(4325)	● STOP	1	1	
		XB2-BA41615(4345)	● STOP	1	1	
	平钮自锁按钮 Self-locking Push button switch	XB2-BZ11	○ W	1	-	
		XB2-BZ21	● BL	1	-	
		XB2-BZ31	● G	1	-	
		XB2-BZ51	● Y	1	-	
		XB2-BZ61	● B	1	-	
		XB2-BZ42	● R	-	1	

外形图 Picture	品名 Product name	型号 Model	颜色 Color	触点类型 Contact type		产品尺寸图 Structure drawing
	蘑菇头按钮 Mushroom head push button switch Φ40mm	XB2-BC21	● BL	1	-	
		XB2-BC31	● G	1	-	
		XB2-BC51	● Y	1	-	
		XB2-BC61	● B	1	-	
		XB2-BC42	● R	-	1	
		XB2-BC35	● G	1	1	
		XB2-BC45	● R	1	1	
	蘑菇头按钮 Mushroom head push button switch Φ40mm	XB2-BR21	● BL	1	-	
		XB2-BR31	● G	1	-	
		XB2-BR42	● R	-	1	
	按拉式急停 Push-pull push button switch Φ40、60mm	XB2-BT42	● R	-	1	
		XB2-BT45	● R	1	1	
		XB2-BX42	● R	-	1	
		XB2-BX45	● R	1	1	
	转动复位急停 Emergency stop push button switch	XB2-BS442	● R	-	1	
		XB2-BS445	● R	1	1	
		XB2-BS521	● BL	1	-	
		XB2-BS531	● G	1	-	
		XB2-BS542	● R	-	1	
		XB2-BS545	● R	1	1	
		XB2-BS621	● BL	1	-	
		XB2-BS631	● G	1	-	
XB2-BS642	● R	-	1			
	钥匙复位急停 (Ronis n° 455) Emergency stop push button with key Φ40mm	XB2-BS142	● R	-	1	
		XB2-BS145	● R	1	1	

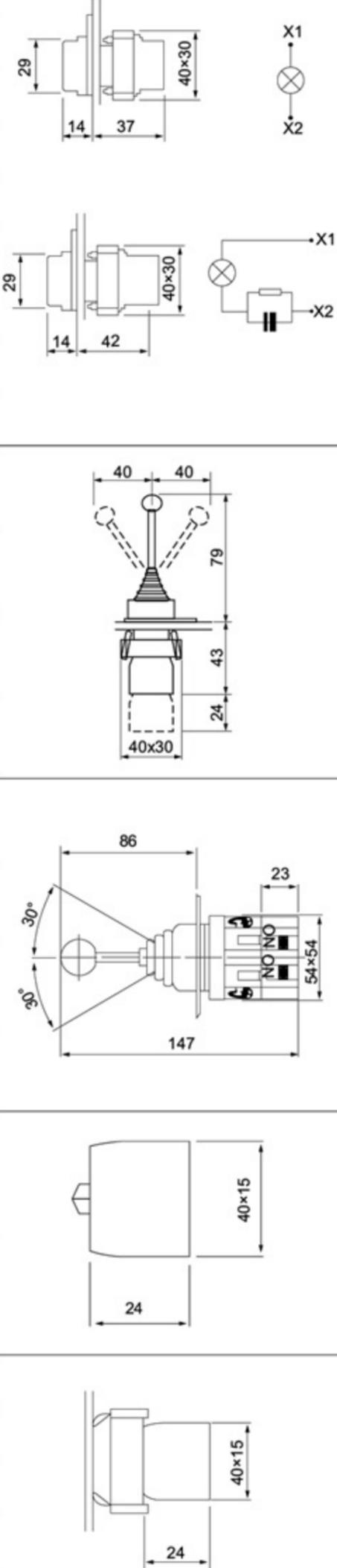
外形图 Picture	品名 Product name	型号 Model	颜色 Color	触点类型 Contact type	产品尺寸图 Structure drawing	
	2 位选择 按钮开关 2 Position select switch	XB2-BD21	V	1	-	
		XB2-BD25		1	1	
		XB2-BD41	∩	1	-	
		XB2-BD45		1	1	
	3 位选择 按钮开关 3 Position select switch	XB2-BD33	V	2	-	
		XB2-BD53	∩	2	-	
XB2-BD73		∩	2	-		
	2 位带柄选择 按钮开关 2 Position with long handle	XB2-BJ21	V	1	-	
		XB2-BJ25		1	1	
		XB2-BJ41	∩	1	-	
		XB2-BJ45		1	1	
	3 位带柄选择 按钮开关 3 Position with long handle	XB2-BJ33	V	2	-	
		XB2-BJ53	∩	2	-	
XB2-BJ73		∩	2	-		
	2 位带钥匙 选择开关 2 Position select switch with key	XB2-BG21	V	1	-	
		XB2-BG25		1	1	
		XB2-BG41	V	1	-	
		XB2-BG45		1	1	
		XB2-BG61	∩	1	-	
		XB2-BG65		1	1	
	3 位带钥匙 选择开关 3 Position select switch with key	XB2-BG33	V	2	-	
		XB2-BG53	∩	2	-	
		XB2-BG03	V	2	-	
		XB2-BG73	∩	2	-	
XB2-BG95	∩	1	1			
	2 位带灯 选择开关 2 Position select switch with light	XB2-BK2365	V ● G	1	1	
		XB2-BK2465	V ● R	1	1	
		XB2-BK2565	V ● Y	1	1	
		XB2-BK2665	V ● B	1	1	
		XB2-BK2765	V ○ W	1	1	
	3 位带灯 选择开关 3 Position select switch with key	XB2-BK3365	V ● G	1	1	
		XB2-BK3465	V ● R	1	1	
		XB2-BK3565	V ● Y	1	1	
		XB2-BK3665	V ● B	1	1	
		XB2-BK3765	V ○ W	1	1	

注：带灯开关可选电压：6.3V/12V/36V/48V/110V/220V/380V。
 Note: optional voltage of switch with light: 6.3V/12V/36V/48V/110V/220V/380V.

外形图 Picture	品名 Product name	型号 Model	颜色 Color	触点类型 Contact type		产品尺寸图 Structure drawing	
	带灯按钮开关 直接式 Direct type	XB2-BW3161	○ W	1	-		
		XB2-BW3361	● G	1	-		
		XB2-BW3462	● R	1	-		
		XB2-BW3561	● Y	1	-		
		XB2-BW3661	● B	1	-		
	带灯按钮开关 阻容式 RC type	XB2-BW3171	○ W	-	1		
		XB2-BW3371	● G	-	1		
		XB2-BW3472	● R	1	1		
		XB2-BW3571	● Y	1	1		
		XB2-BW3671	● B	1	-		
	带灯按钮开关 直接式 带灯自锁按钮 Push button with light maintain	XB2-BZ3161	○ W	1	-		
		XB2-BZ3361	● G	1	-		
		XB2-BZ3462	● R	1	-		
		XB2-BZ3561	● Y	-	1		
		XB2-BZ3661	● B	-	1		
	带灯按钮开关 阻容式 带灯自锁按钮 RC type	XB2-BZ3171	○ W	1	1		
		XB2-BZ3371	● G	1	1		
		XB2-BZ3472	● R	1	-		
		XB2-BZ3571	● Y	1	-		
		XB2-BZ3671	● B	1	1		
	蘑菇头带灯 开关 直接式 Direct type	XB2-BW4161	○ W	1	-		
		XB2-BW4361	● G	1	-		
		XB2-BW4462	● R	-	1		
		XB2-BW4561	● Y	1	-		
		XB2-BW4661	● B	1	-		
	双键按钮开关 Double button switch	XB2-BL8325		1	1		
		XB2-BL8425		1	1		
	双键方头带灯按钮 开关 (直接式) Square head double key push button switch with a light	XB2-BW8365		1	1		
		XB2-BW8465		1	1		

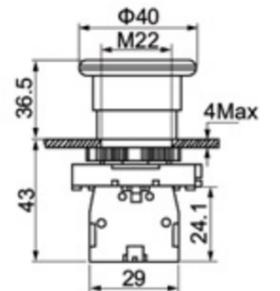
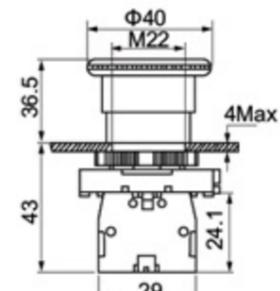
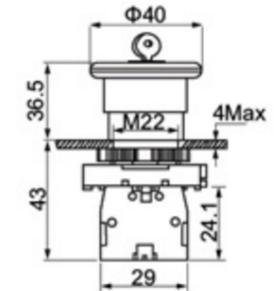
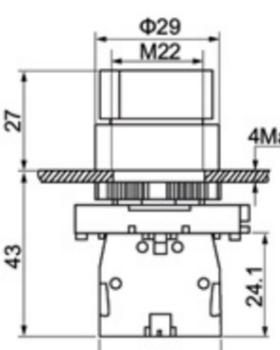
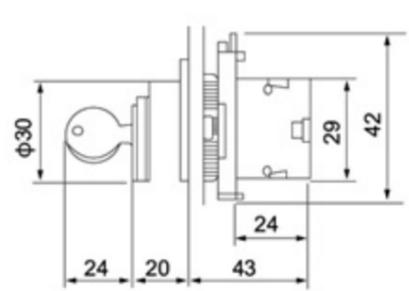
注：带灯开关可选电压：6.3V/12V/36V/48V/110V/220V/380V。

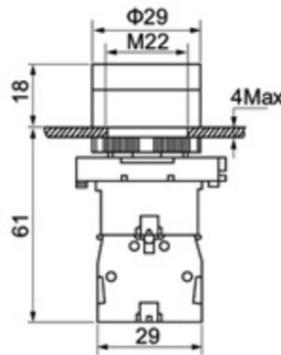
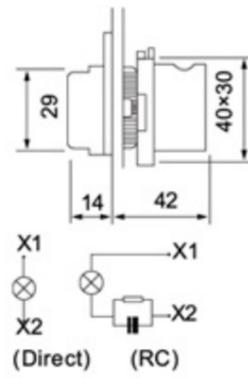
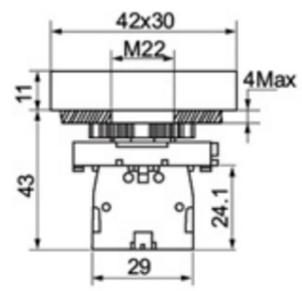
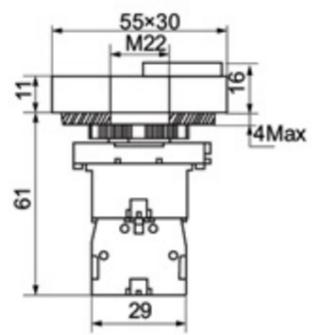
Note: optional voltage of switch with light: 6.3V/12V/36V/48V/110V/220V/380V.

外形图 Picture	品名 Product name	型号 Model	颜色 Color	触点类型 Contact type		产品尺寸图 Structure drawing
	指示灯 直接式 Direct type	XB2-BV61	○ W	-	-	
		XB2-BV63	● G	-	-	
		XB2-BV64	● R	-	-	
		XB2-BV65	● Y	-	-	
		XB2-BV66	● B	-	-	
	指示灯 阻容式 RC type	XB2-BV71	○ W	-	-	
		XB2-BV73	● G	-	-	
		XB2-BV74	● R	-	-	
		XB2-BV75	● Y	-	-	
		XB2-BV76	● B	-	-	
	十字主令开关 二向锁定 2 position maintain	XB2-PA12	Ø22	1	-	
	十字主令开关 二向弹簧返回 2 position spring	XB2-PA22		1	-	
	十字主令开关 四向锁定 4 position maintain	XB2-PA14		1	-	
	十字主令开关 四向弹簧返回 4 position spring	XB2-PA24		-	1	
	十字主令开关 四向弹簧返回 4 position spring	XC402	Ø30	-	1	
	十字主令开关 四向锁定 4 position maintain	XC4022		1	1	
	十字主令开关 二向弹簧返回 2 position spring	XC201		1	1	
	十字主令开关 二向锁定 2 position maintain	XC2011		1	-	
	辅助 / 可替换的触点 螺旋压入式电子 Contact block	XB2-BE101	-	1	-	
		XB2-BE102	-	1	1	
	十字主令开关 二向锁定 2 position maintain	XB2-BZ101	-	1	-	
		XB2-BZ102		1	-	
		XB2-BZ103		-	1	
		XB2-BZ104		1	-	
		XB2-BZ105		1	1	

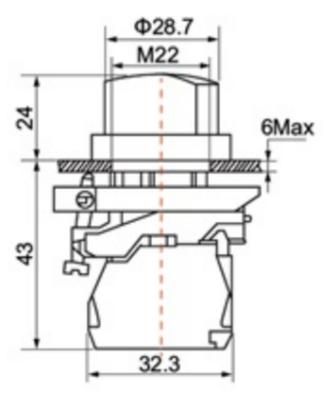
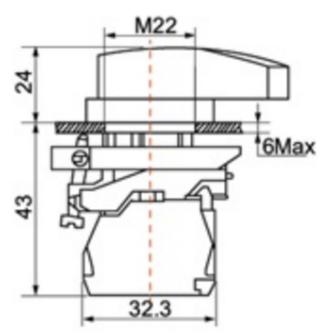
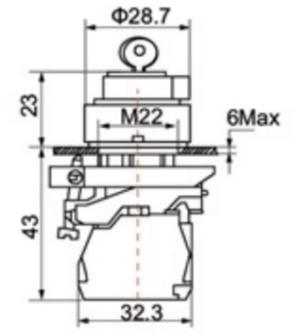
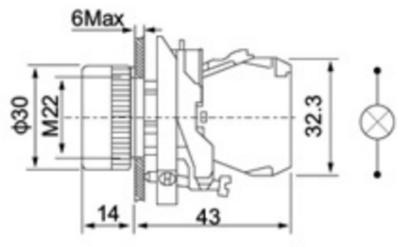
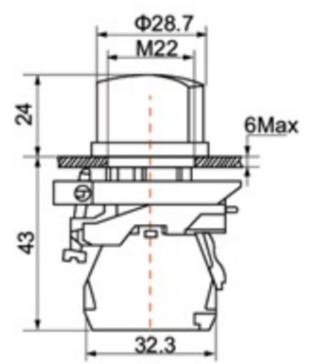
外形图 Picture	品名 Product name	型号 Model	颜色 Color	触点类型 Contact type		产品尺寸图 Structure drawing
	平头按钮 Flat push button switch	XB2-EA11	○ W	1	-	
		XB2-EA21	● BL	1	-	
		XB2-EA31	● G	1	-	
		XB2-EA51	● Y	1	-	
		XB2-EA61	● B	1	-	
		XB2-EA22	● BL	-	1	
		XB2-EA42	● R	-	1	
		XB2-EA35	● G	1	1	
		XB2-EA45	● R	1	1	
	凸头按钮 Extended push button switch	XB2-EL21	● BL	1	-	
		XB2-EL31	● G	1	-	
		XB2-EL51	● Y	1	-	
		XB2-EL61	● B	1	-	
		XB2-EL22	● BL	-	1	
		XB2-EL42	● R	-	1	
		XB2-EL35	● G	1	1	
		XB2-EL45	● R	1	1	
	带罩按钮 Push button with waterproof cover switch	XB2-EP21	● BL	1	-	
		XB2-EP31	● G	1	-	
		XB2-EP51	● Y	1	-	
		XB2-EP61	● B	-	1	
		XB2-EP42	● R	-	1	
		XB2-EP35	● G	1	1	
		XB2-EP45	● R	1	1	
	标志式 平头按钮 Mark push button	XB2-EA31511(3311)	● I	1	-	
		XB2-EA12511(3341)	● I	1	-	
		XB2-EA21511(3351)	● I	1	-	
		XB2-EA41572(4322)	● STOP	-	1	
		XB2-EA41612(4342)	● STOP	-	1	
		XB2-EA41575(4325)	● STOP	1	1	
		XB2-EA41615(4345)	● STOP	1	1	

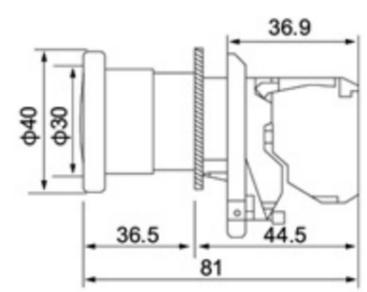
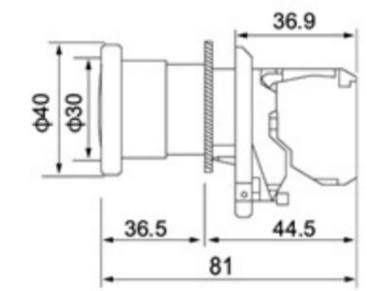
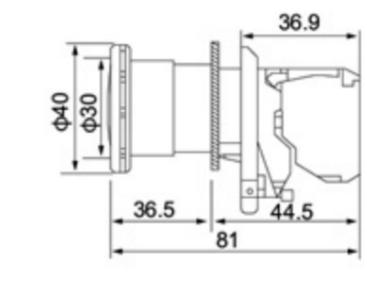
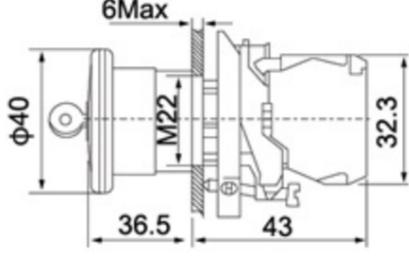
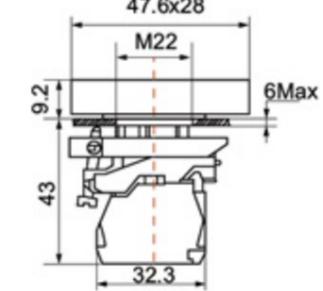
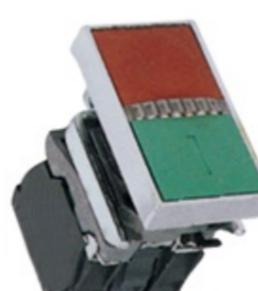
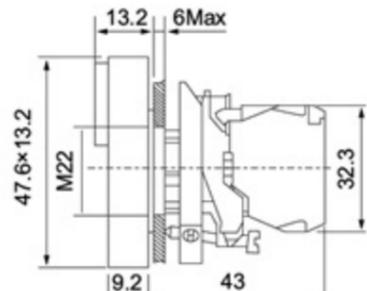
注：带标志按钮括号为对应老型号
Note: The button with mark is the corresponding old model in brackets.

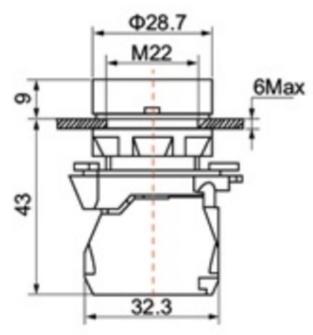
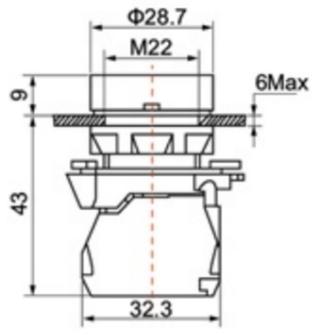
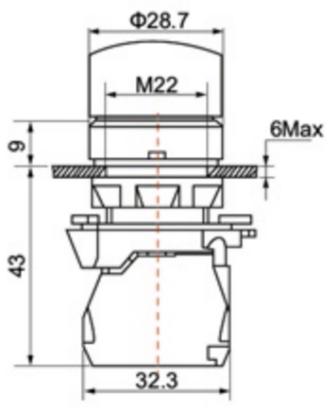
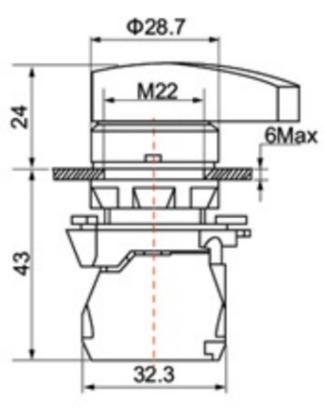
外形图 Picture	品名 Product name	型号 Model	颜色 Color	触点类型 Contact type		产品尺寸图 Structure drawing
	蘑菇头按钮 Mushroom push button switch Ø40mm、Ø60mm	XB2-EC21	● BL	1	-	
		XB2-EC31	● G	1	-	
		XB2-EC51	● Y	1	-	
		XB2-EC61	● B	1	-	
		XB2-EC42	● R	-	1	
		XB2-EC35	● G	1	1	
		XB2-EC45	● R	1	1	
		XB2-ER42	● R	-	1	
		XB2-ER45	● R	1	1	
	急停按钮 Emergency stop switch Ø30mm、Ø40mm Ø60mm	XB2-ES442	● R	-	1	
		XB2-ES542	● R	-	1	
		XB2-ES545	● R	1	1	
		XB2-ES642	● R	-	1	
	锁扣式 Ø40mm 蘑菇头红钥匙位 (Ronis n° 455) Emergency stop switch with key Ø40mm、Ø60mm	XB2-ES645	● R	1	1	
		XB2-ES142	● R	-	1	
		XB2-ES145	● R	1	1	
	2 位锁定 2 Position maintain	XB2-ED21	∨	1	-	
		XB2-ED25		1	1	
	2 位自返式 2 Position spring	XB2-ED41	∨	1	-	
		XB2-ED45		1	1	
	3 位锁定 3 Position maintain	XB2-ED33	∨	2	-	
3 位自返式 3 Position spring	XB2-ED53	∨	2	-		
	2 位钥匙开关锁定 2 Position switch with key	XB2-EG21	∨	1	-	
		XB2-EG25		1	1	
		XB2-EG41	∨	1	-	
		XB2-EG45		1	1	
		XB2-EG61	∨	1	-	
	XB2-EG65		1	1		
	3 位钥匙开关锁定 3 Position switch with key	XB2-EG33	∨	2	-	
		XB2-EG53	∨	2	-	
		XB2-EG03	∨	2	-	
XB2-EG73		∨	2	-		

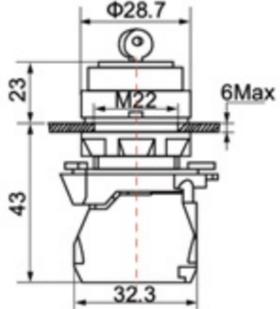
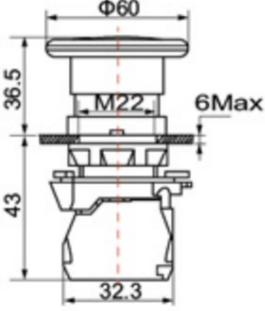
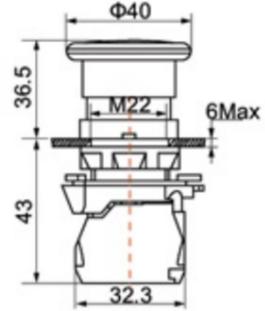
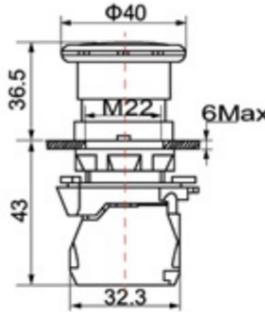
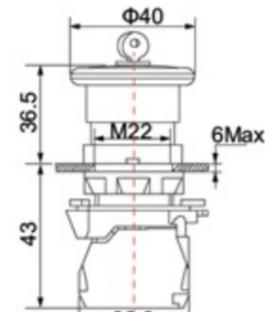
外形图 Picture	品名 Product name	型号 Model	颜色 Color	触点类型 Contact type		产品尺寸图 Structure drawing
	平头带灯按钮 (弹簧返回) 直接式 Direct type	XB2-EW3361	● G	1	-	
		XB2-EW3462	● R	1	-	
		XB2-EW3561	● Y	1	-	
		XB2-EW3661	● B	1	-	
	平头带灯按钮 (弹簧返回) 阻容式 RC type	XB2-EW3371	● G	1	-	
		XB2-EW3472	● R	-	1	
		XB2-EW3571	● Y	-	1	
		XB2-EW3671	● B	1	1	
	平头带灯按钮 (弹簧返回) 直接式 Direct type	XB2-EV63	● G	1	1	
		XB2-EV64	● R	1	-	
		XB2-EV65	● Y	1	-	
		XB2-EV66	● B	1	-	
	平头带灯按钮 (弹簧返回) 阻容式 RC type	XB2-EV73	● G	1	-	
		XB2-EV74	● R	-	1	
		XB2-EV75	● Y	-	1	
		XB2-EV76	● B	1	1	
	双键按钮开关 Double button switch	XB2-EL8325	■ G ■ R	-	1	
		XB2-EL8425	■ G ■ R	1	-	
	双键方头带灯按钮 开关 (直接式) Square head double key push button switch with a light	XB2-EW8465	■ G ■ R ■ Y	1	1	
		XB2-EW8365	■ G ■ R ■ Y	1	1	

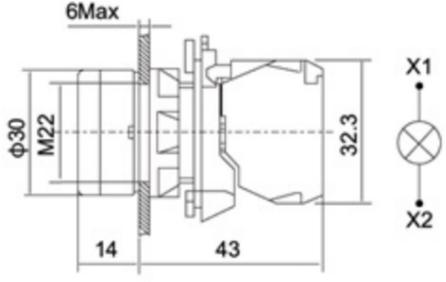
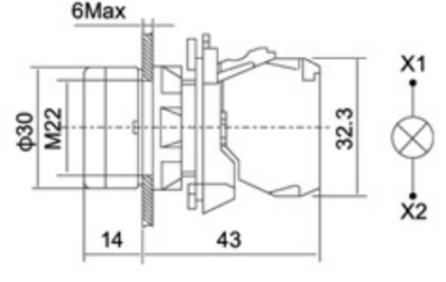
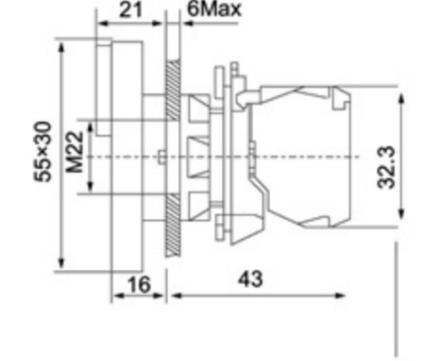
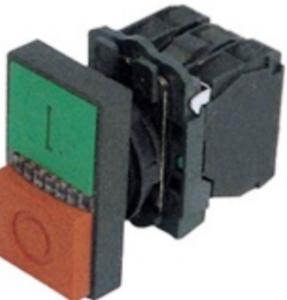
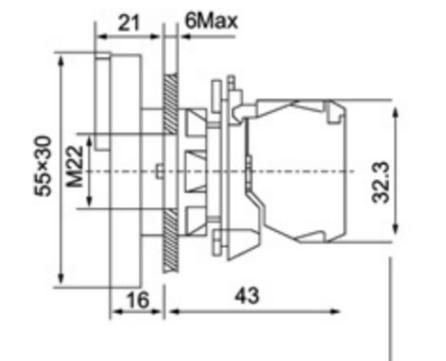
外形图 Picture	品名 Product name	型号 Model	颜色 Color	触点类型 Contact type		产品尺寸图 Structure drawing
	平头按钮 Flat push button switch	XB4-BA11	○ W	1	-	
		XB4-BA21	● BL	1	-	
		XB4-BA31	● G	1	-	
		XB4-BA51	● Y	1	-	
		XB4-BA61	● B	1	-	
		XB4-BA42	● R	-	1	
		XB4-BA25	● BL	1	1	
		XB4-BA35	● G	1	1	
		XB4-BA45	● R	1	1	
	凸头按钮 Extended push button switch	XB4-BL31	● G	1	-	
		XB4-BL35	● G	1	1	
		XB4-BL42	● R	-	1	
		XB4-BL45	● R	1	1	
		XB4-BL11	○ W	1	-	
		XB4-BL21	● BL	1	-	
		XB4-BL61	● B	1	-	
		XB4-BL51	● Y	1	-	
	带罩按钮 Push button with waterproof cover switch	XB4-BP21	● BL	1	-	
		XB4-BP31	● G	1	-	
		XB4-BP51	● Y	1	-	
		XB4-BP61	● B	1	-	
		XB4-BP42	● R	-	1	
		XB4-BP35	● G	1	1	
		XB4-BP45	● R	1	1	
	带 LED 按钮 Push button with light(include LED)	XB4-BW3161	○ W	1	-	
		XB4-BW3361	● G	1	-	
		XB4-BW3462	● R	-	1	
		XB4-BW3561	● Y	1	-	
		XB4-BW3661	● B	1	-	
	标志式 平头按钮 Mark push button	XB2-EA31511(3311)	● (Green)	1	-	
		XB2-EA12511(3341)	● (Up arrow)	1	-	
		XB2-EA21511(3351)	● (Down arrow)	1	-	
		XB2-EA41572(4322)	● (Red circle)	-	1	
		XB2-EA41612(4342)	● (Red circle with STOP)	1	1	
		XB2-EA41575(4325)	● (Red circle)	1	1	
		XB2-EA41615(4345)	● (Red circle with STOP)	1	1	

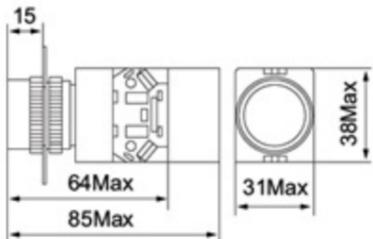
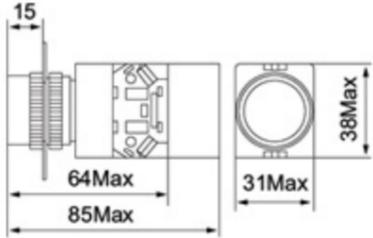
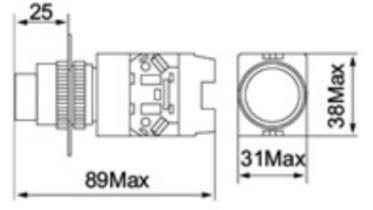
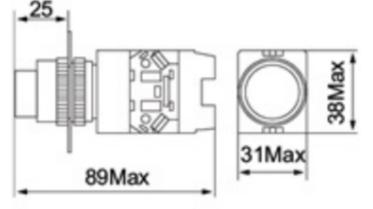
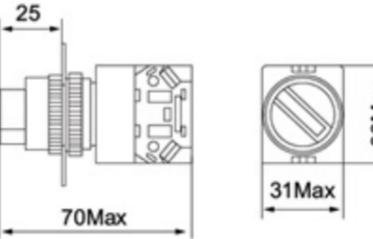
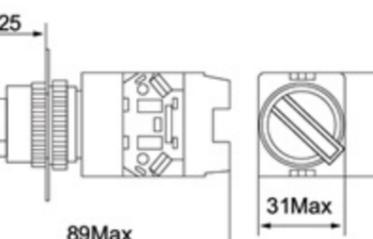
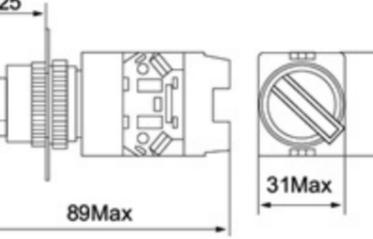
外形图 Picture	品名 Product name	型号 Model	颜色 Color	触点类型 Contact type		产品尺寸图 Structure drawing
	2 位选择 按钮开关 2 Position select switch	XB4-BD21	∨	1	-	
		XB4-BD25		1	1	
		XB4-BD41		1	-	
	3 位选择 按钮开关 3 Position select switch	XB4-BD45	∨	1	1	
		XB4-BD33		2	-	
		XB4-BD53		2	-	
	2 位带柄选择 按钮开关 2 Position with long handle	XB4-BJ21	∨	1	-	
		XB4-BJ25		1	1	
		XB4-BJ41		1	-	
		XB4-BJ45		1	1	
	3 位带柄选择 按钮开关 3 Position with long handle	XB4-BJ33	∨	2	-	
		XB4-BJ53		2	-	
	2 位带钥匙 选择开关 2 Position select switch with key	XB4-BG21	∨	1	-	
		XB4-BG25		1	1	
		XB4-BG41		1	-	
		XB4-BG45		1	1	
		XB4-BG61		1	-	
		XB4-BG65		1	1	
	3 位带钥匙 选择开关 3 Position select switch with key	XB4-BG33	∨	2	-	
		XB4-BG53		2	-	
	LED 指示灯 LED Indicator (include LED)	XB4-BV61	○ W	-	-	
		XB4-BV63	● G	-	-	
		XB4-BV64	● R	-	-	
		XB4-BV65	● Y	-	-	
		XB4-BV66	● B	-	-	
	带 LED 灯选择开关 Select switch with LED lighth (include LED)	XB2-BK2365	∨ ● G	1	1	
		XB2-BK2465	∨ ● R	1	1	
		XB2-BK2565	∨ ● Y	1	1	
		XB2-BK3365	∨ ● G	1	1	
		XB2-BK3465	∨ ● R	1	1	
		XB2-BK3565	∨ ● Y	1	1	

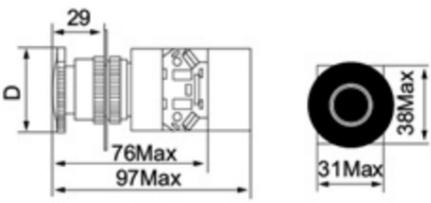
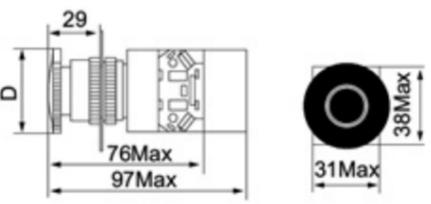
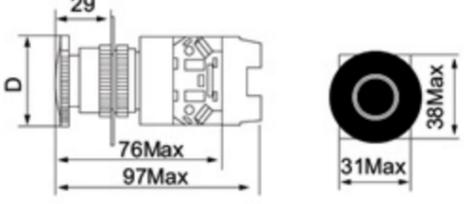
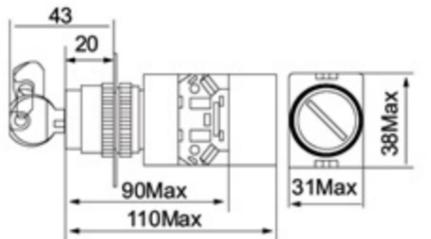
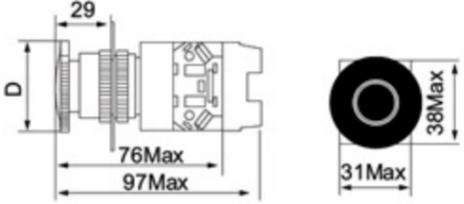
外形图 Picture	品名 Product name	型号 Model	颜色 Color	触点类型 Contact type		产品尺寸图 Structure drawing
	蘑菇头按钮 Mushroom head push button switch Ø40mm	XB4-BC31	● G	1	-	
		XB4-BC42	● R	-	1	
		XB4-BC35	● G	1	1	
		XB4-BC45	● R	1	1	
	按拉式急停 Push-pull push button switch Ø40mm	XB4-BT42	● R	-	1	
		XB4-BT45		1	1	
	转动复位急停 Emergency stop push button switch Ø40mm	XB4-BS542	● R	-	1	
		XB4-BS545		1	1	
	锁扣式蘑菇头 红色钥匙复位 (Ronis n° 455) Emergency stop push button switch with key Ø40mm	XB4-BS142	● R	-	1	
		XB4-BS145		1	1	
	双键按钮开关 Double button switch	XB4-BW8325		1	1	
		XB4-BW8425		1	1	
	双键方头带灯按钮 开关 (直接式) Square head double key push button switch with a light	XB4-BW8365		1	1	
		XB4-BW8465		1	1	

外形图 Picture	品名 Product name	型号 Model	颜色 Color	触点类型 Contact type		产品尺寸图 Structure drawing
	平头按钮 Flat push button	XB5-AA11	○ W	1	-	
		XB5-AA21	● BL	1	-	
		XB5-AA31	● G	1	-	
		XB5-AA51	● Y	1	-	
		XB5-AA61	● B	1	-	
		XB5-AA42	● R	-	1	
		XB5-AA35	● G	1	1	
		XB5-AA45	● R	1	1	
	凸头按钮 Extended push button switch	XB5-AL11	○ W	1	-	
		XB5-AL21	● BL	1	-	
		XB5-AL31	● G	1	-	
		XB5-AL51	● Y	1	-	
		XB5-AL61	● B	1	-	
		XB5-AL42	● R	-	1	
		XB5-AL35	● G	1	1	
		XB5-AL45	● R	1	1	
	2 位锁定 2 Position maintain	XB5-AD21	∨	1	-	
		XB5-AD25		1	1	
	2 位自返式 2 Position spring	XB5-AD41	∩	1	-	
		XB5-AD45		1	1	
	3 位锁定 3 Position maintain	XB5-AD33	∩	2	-	
	3 位自返式 3 Position spring	XB5-AD53	∨	2	-	
	2 位锁定 2 Position maintain	XB5-AJ21	∨	1	-	
		XB5-AJ25		1	1	
	2 位自返式 2 Position spring	XB5-AJ41	∩	1	-	
		XB5-AJ45		1	1	
	3 位锁定 3 Position maintain	XB2-EG33	∩	2	-	
	3 位自返式 3 Position spring	XB2-EG53	∨	2	-	

外形图 Picture	品名 Product name	型号 Model	颜色 Color	触点类型 Contact type		产品尺寸图 Structure drawing
	2 位钥匙开关 2 Position switch with key	XB5-AG21	∨	1	-	
		XB5-AG25		1	1	
		XB5-AG41	∨	1	-	
		XB5-AG45		1	1	
		XB5-AG61	∨	1	-	
		XB5-AG65		1	1	
	3 位钥匙开关 3 Position switch with key	XB5-AA35	∨	2	-	
		XB5-AA45	∨	2	-	
		XB5-AG03	∨	2	-	
	蘑菇头按钮 Mushroom head push button switch Ø40mm	XB5-AC21	● BL	1	-	
		XB5-AC31	● G	1	-	
		XB5-AC51	● Y	1	-	
		XB5-AC42	● R	-	1	
		XB5-AC35	● G	1	1	
		XB5-AC45	● R	1	1	
	蘑菇头按钮 Mushroom head push button switch Ø40mm	XB5-AS542	● R	-	1	
		XB5-AS545		1	1	
	按拉式急停 Push-pull push button switch Ø40mm	XB5-AT42	● R	-	1	
		XB5-AT45		1	1	
	锁扣式蘑菇头 红色钥匙复位 (Ronis n° 455) Emergency stop push buttonswitch with key Ø40mm	XB5-AS142	● R	-	1	
		XB5-AS145		1	1	

外形图 Picture	品名 Product name	型号 Model	颜色 Color	触点类型 Contact type		产品尺寸图 Structure drawing
	平头带灯开关 直接式 Direct type	XB5-AW3161	○ W	1	-	
		XB5-AW3361	● G	1	-	
		XB5-AW3462	● R	-	1	
		XB5-AW3561	● Y	1	-	
		XB5-AW3661	● B	1	-	
	平头带灯开关 直接式 Direct type	XB5-AV61	○ W	-	-	
		XB5-AV63	● G	-	-	
		XB5-AV64	● R	-	-	
		XB5-AV65	● Y	-	-	
		XB5-AV66	● B	-	-	
	双键按钮开关 Double button switch IP40 NO [13 14] NC [21 22]	XB5-AL8325	● G	1	1	
		XB5-AL8425	● R	1	1	
	双键方头带灯 按钮开关 (直接式) Square head double key push button switch with a light IP40 NO [13 14] X1 X2 NC [21 22]	XB5-AW8465	● G	1	1	
		XB5-AW8365	● R	1	1	

外形图 Picture	品名 Product name	型号 Model	颜色 Color	触点类型 Contact type		产品尺寸图 Structure drawing
	平钮开关 Flat push button	XD7-11	○ W	1	1	
			● BL	1	1	
			● G	1	1	
			● R	1	1	
			● Y	1	1	
			● B	1	1	
	平钮自锁开关 Self-lock button	XD7-11T	○ W	1	1	
			● BL	1	1	
			● G	1	1	
			● R	1	1	
			● Y	1	1	
			● B	1	1	
	平钮带灯开关 Push button switch with light (LED)	XD7-11D	○ W	1	1	
			● G	1	1	
			● R	1	1	
			● Y	1	1	
			● B	1	1	
	平钮自锁带灯开关 Push button switch spring light (LED)	XD7-11TD	○ W	1	1	
			● G	1	1	
			● R	1	1	
			● Y	1	1	
			● B	1	1	
	选择开关 2 位 Select switch 2P	XD7-10X/2	∨	1	-	
		XD7-11X/2		1	1	
	选择开关 2 位自返式 Select switch 2P spring	XD7-10X/22	∨	1	-	
		XD7-11X/22		1	1	
	选择开关 3 位 Select switch 3P	XD7-20X/3	∨	2	-	
	选择开关 3 位自返式 Select switch 3P spring	XD7-20X/33	∨	2	-	
	选择开关 2 位 Select switch 2P	XD7-10XB/2	∨	1	-	
		XD7-11XB/2		1	1	
	选择开关 2 位自返式 Select switch 2P spring	XD7-10XB/22	∨	1	-	
		XD7-11XB/22		1	1	
	选择开关 3 位 Select switch 3P	XD7-20XB/3	∨	2	-	
	选择开关 3 位自返式 Select switch 3P spring	XD7-20XB/33	∨	2	-	
	带灯选择开关 2 位 Select switch with light switch 2P (LED)	XD7-11XD/2	● G	1	1	
			● R	1	1	
			● Y	1	1	
	带灯选择开关 3 位 Select switch with light switch 3P (LED)	XD7-20XD/3	● G	1	1	
			● R	2	-	
			● Y	2	-	

外形图 Picture	品名 Product name	型号 Model	颜色 Color	触点类型 Contact type		产品尺寸图 Structure drawing
	蘑菇钮 Mushroom push button switch	XD7-11M	● G	1	1	
			● R	1	1	
			● Y	1	1	
	紧急式蘑菇自锁钮 Emergency stop switch	XD7-01ZS	● R	-	1	
			● G	1	-	
		XD7-11ZS	● R	1	1	
			● G	1	1	
	蘑菇钮带灯钮 Mushroom button with light (LED)	XD7-11MD	○ W	1	1	
			● G	1	1	
			● R	1	1	
			● Y	1	1	
			● B	1	1	
	钥匙选择开关 2 位 Select switch with key 2P	XD7-10Y/2	∨	1	-	
		XD7-11Y/2		1	1	
	钥匙选择开关 3 位 Select switch with key 3P	XD7-20Y/3	∨	2	-	
	蘑菇钮带灯钮急停 Emergency stop push button with light (LED)	XD7-11ZSD	○ W	1	1	
			● G	1	1	
			● R	1	1	
			● Y	1	1	
			● B	1	1	
	触点模块 Contact block	XD7-1	-	1	-	
		XD7-2	-	-	1	
		XD7-3	-	2	-	
		XD7-4	-	-	2	
		XD7-5	-	1	1	

注：同型号可选择安装口径型号为XD78-(Ø25)、XD7C-(Ø30)。
Note: XD78 is optional for the same model-(Ø25)、XD7C-(Ø30)。

结构 Structure

外形尺寸: 依照图面规定。

外观: 表面清洁, 无损伤; 裂纹, 水花纹, 金属电镀不良等现象。

Dimension: according to the drawing.

Appearance: the surface is clean without damage; Crack, water pattern, poor metal plating and so on.

电气性能 Electrical performance

额定电压/电流值:

交流AC 380V/4A 220V/6A 110V/10A;

直流DC 220V/0.5A 110V/1A 48V/3A 24V/6A;

耐震动: 5~55Hz单振幅0.5mm;

约定发热电流: Ith 10A;

额定绝缘电压: Ui AC 660V 50Hz;

接触电阻: $\leq 50m\Omega$;

绝缘电阻: $\geq 100M\Omega$;

防护等级: IP40(IP65定制)。

Rated voltage / current value:

AC 380V / 4A 220V / 6A 110V / 10A;

DC 220 V / 0.5A 110 V / 1A 48 V / 3A 24 V / 6A;

Vibration resistance: 5 ~ 55Hz, single amplitude 0.5mm;

Conventional heating current: Ith 10A;

Rated insulation voltage: UI AC 660V, 50 Hz;

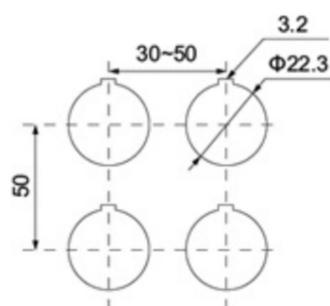
Contact resistance: $\leq 50m\Omega$;

Insulation resistance: $\geq 100m\Omega$; Protection grade: IP40 (IP65).

使用注意事项 Precautions for use

安装板厚 $\leq 6mm$

Thickness of mounting plate $\leq 6mm$



注1: 3.2mm的凹槽用于防止转动, 不使用标记牌及防转环时不需要;

注2: 最小安装中心间距为一层触点块(双触点)开关的标准值;

安装两侧触点块时, 请考虑方便接线的情况下再确定最小安装中心间距;

参考: 40mm大蘑菇头形: 40mm以上。

Note 1: the 3.2mm groove is used to prevent rotation, and it is not necessary when the signboard and anti rotation ring are not used;

Note 2: the minimum installation center distance is the standard value of one layer contact block (double contact) switch;

When installing the contact blocks on both sides, please consider the convenience of wiring and then determine the minimum installation center distance;

Reference: 40mm big mushroom head shape: more than 40mm.

机械性能 Mechanical properties

工作温度: $-25^{\circ}C \sim +55^{\circ}C$ (无结冰);

操作湿度: 45~85%RH(无凝结);

污染等级: 3级;

海拔高度: $\leq 2000m$ 。

Working temperature: $-25^{\circ}C \sim +55^{\circ}C$ (no icing);

Operating humidity: 45 ~ 85% RH (no condensation);

Pollution level: 3;

Altitude: $\leq 2000m$.

寿命 Life

机械寿命: 按钮 3×10^6 , 其他: 10×10^5 次;

电气寿命: 交流 20×10^4 次; 直流 10×10^4 次;

灯座寿命: 30000小时。

Mechanical life: button 3×10^6 , others: 10×10^5 times;

Electrical life: AC 20×10^4 times; DC 10×10^4 times;

Lamp holder life: 30000 hours.

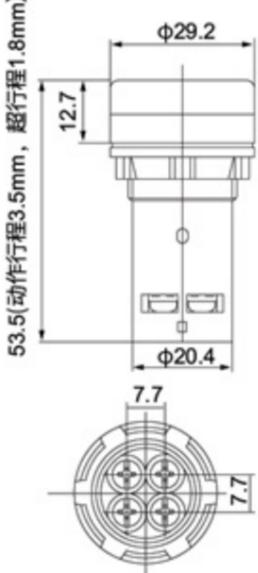
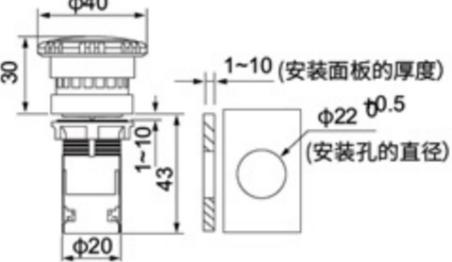
贮存及使用环境 Storage and use environment

请在规定的环境温度、环境湿度范围内使用;

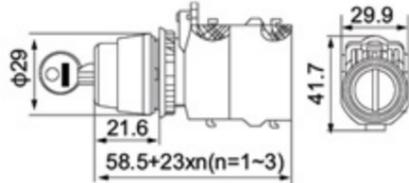
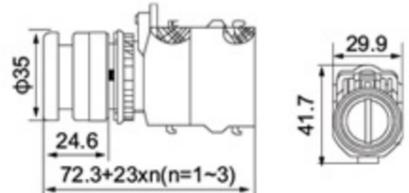
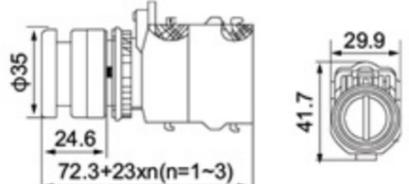
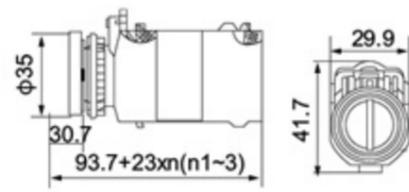
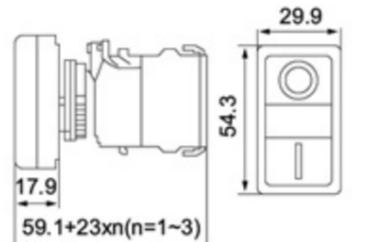
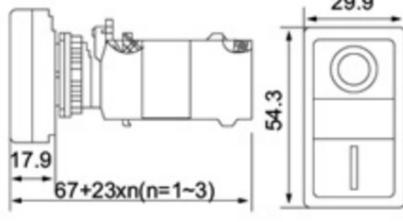
请不要在受油、水侵入及积尘多的场所使用。

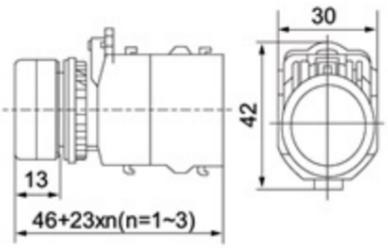
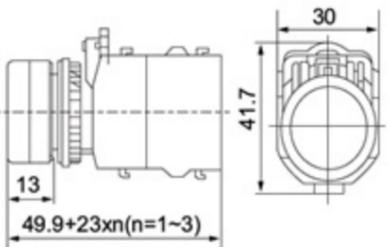
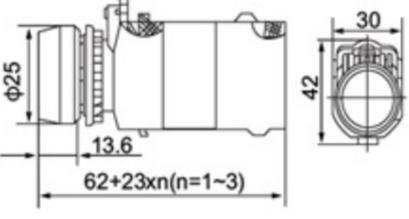
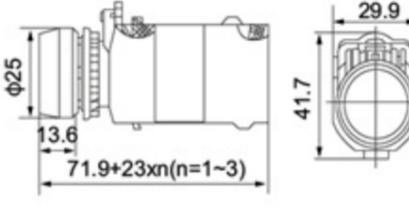
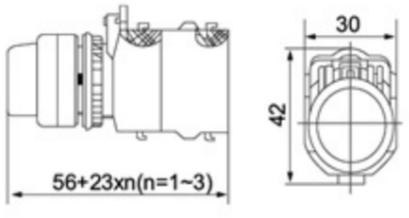
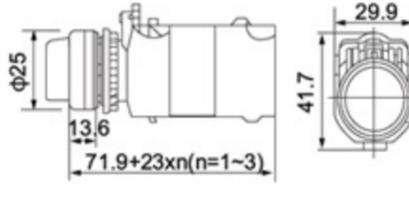
Please use it within the specified range of ambient temperature and humidity;

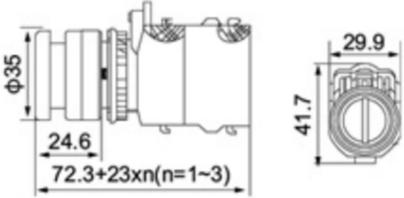
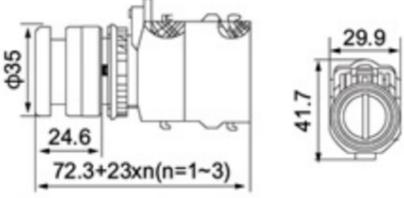
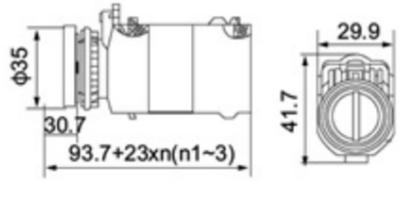
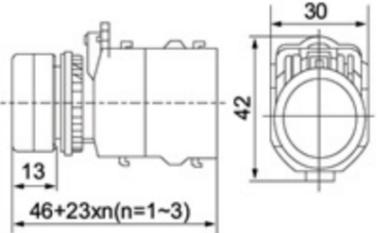
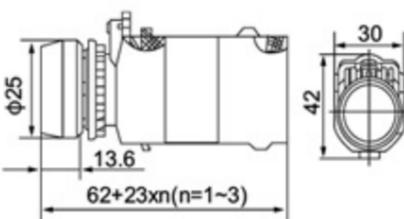
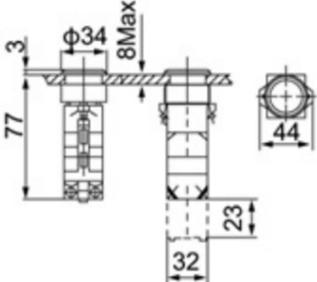
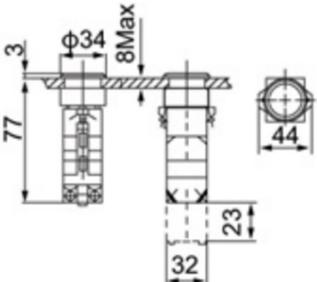
Please do not use it in places where oil, water and dust are accumulated.

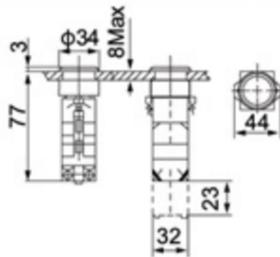
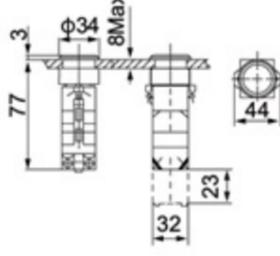
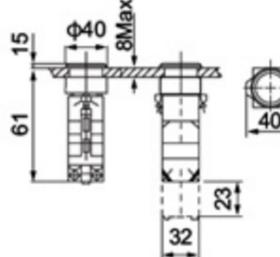
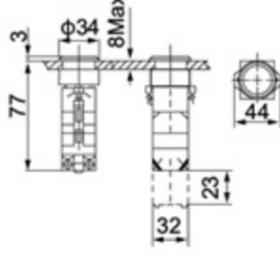
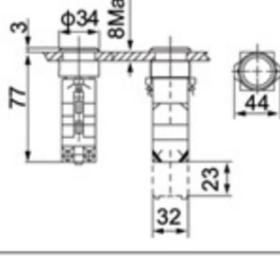
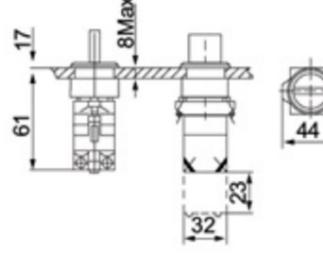
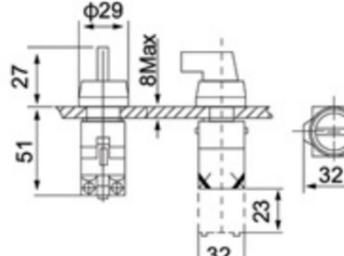
外形图 Picture	品名 Product name	型号 Model	颜色 Color	触点类型 Contact type		产品尺寸图 Structure drawing
	上行按钮 Up push button	XD8-EA12561	ⓘ W	1	0	 <p>53.5(动作行程3.5mm, 超行程1.8mm)</p>
		XD8-EA12563		2	0	
		XD8-EA12565		1	1	
	下行按钮 Down push button	XD8-EA21561	ⓑ BL	1	0	
		XD8-EA21563		2	0	
		XD8-EA565		1	1	
	运行按钮 Run push button	XD8-EA61781	ⓑ B	1	0	
		XD8-EA61783		2	0	
		XD8-EA61785		1	1	
	Ø40 蘑菇头急停按钮 Mushroom head emergency stop switch	XB7-ES542	● R	-	1	 <p>1~10 (安装面板的厚度) φ22 ±0.5 (安装孔的直径)</p>
		XB7-ES541		1	-	
		XB7-ES545		1	1	
		XB7-ES544		-	2	
		XB7-ES543		2	-	

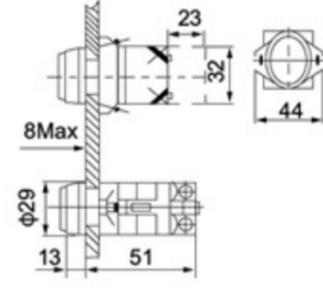
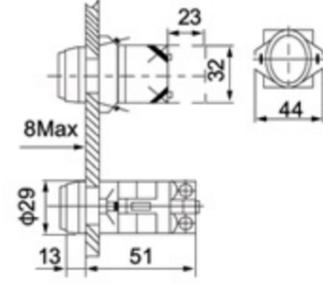
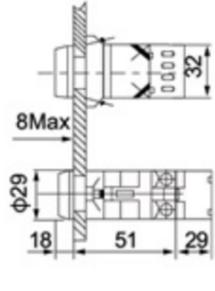
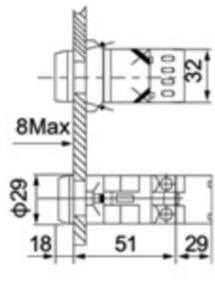
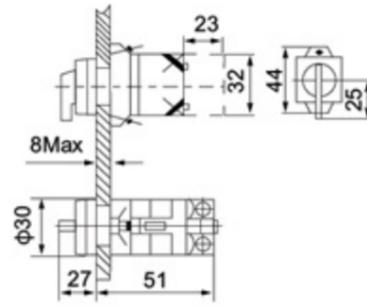
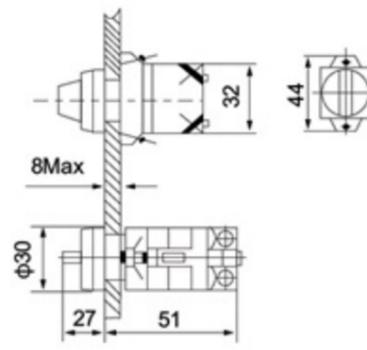
外形图 Picture	品名 Product name	型号 Model	颜色 Color	触点类型 Contact type		产品尺寸图 Structure drawing
	平钮开关 Flat push button switch	XD8-11	○ W	1	1	
			● BL	1	1	
			● G	1	1	
			● R	1	1	
			● Y	1	1	
			● B	1	1	
	平钮自锁开关 Self-lock button	XD8-11T	○ W	1	1	
			● BL	1	1	
			● G	1	1	
			● R	1	1	
			● Y	1	1	
			● B	1	1	
	平钮带灯开关 Push button switch with light	XD8-11D	○ W	1	1	
			● G	1	1	
			● R	1	1	
			● Y	1	1	
			● B	1	1	
	平钮自锁带灯开关 Push button switch spring light (LED)	XD8-11TD	○ W	1	1	
			● G	1	1	
			● R	1	1	
			● Y	1	1	
			● B	1	1	
	选择开关 2 位 Select switch 2P	XD8-11X/2	∨	1	-	
		XD8-11X/22	∨	1	1	
	选择开关 2 位 Select switch 2P	XD8-20X/3	∨	1	-	
		XD8-20X/33	∨	1	1	
	带灯选择开关 2 位 Select switch with light switch 2P	XD8-11XD/2	● G	1	1	
			● R	1	1	
			● Y	1	1	
			● B	1	1	
	带灯选择开关 3 位 Select switch with light switch 3P	XD8-20XD/3	● G	1	1	
			● R	2	-	
			● Y	2	-	
			● B	2	-	

外形图 Picture	品名 Product name	型号 Model	颜色 Color	触点类型 Contact type		产品尺寸图 Structure drawing
	钥匙选择开关 2 位 Select switch with key 2P	XD8-11Y/2	∨	1	1	
	钥匙选择开关 3 位 Select switch with key 3P	XD8-20Y/3	∨	2	-	
	蘑菇按钮 Mushroom push button switch	XD8-11M	● G	1	1	
			● R	1	1	
	紧急式蘑菇自锁钮 Emergency stop push button switch	XD8-11ZS	● R	1	1	
			● G	1	1	
	带灯照光式蘑菇钮 Mushroom push button switch with light	XD8-11MD	● G	1	1	
			● R	1	1	
	方头双键按钮 Double key push button switch	XD8-11R.G	● G ● R	1	1	
	方头带灯双键按钮 (带 E 是 LED 一体) (带 N 是氖泡式) Double key push button switch with light	XD8-11DR.G	● G ● Y ● R	1	1	
	触点基座 Contact block	XD8-1	-	1	-	
		XD8-2		-	1	
		XD8-3		2	-	
		XD8-4		-	2	
		XD8-5		1	1	

外形图 Picture	品名 Product name	型号 Model	颜色 Color	触点类型 Contact type		产品尺寸图 Structure drawing
	平钮开关 Flat push button switch	XD8-11	○ W	1	1	
			● BL	1	1	
			● G	1	1	
			● R	1	1	
			● Y	1	1	
			● B	1	1	
	平钮自锁开关 Self-lock button	XD8-11T	○ W	1	1	
			● BL	1	1	
			● G	1	1	
			● R	1	1	
			● Y	1	1	
			● B	1	1	
	平钮带灯开关 Push button switch with light	XD8-11D	○ W	1	1	
			● G	1	1	
			● R	1	1	
			● Y	1	1	
			● B	1	1	
	平钮自锁带灯开关 Push button switch spring light (LED)	XD8-11TD	○ W	1	1	
			● G	1	1	
			● R	1	1	
			● Y	1	1	
			● B	1	1	
	选择开关 2 位 Select switch 2P	XD8-11X/2	∨	1	-	
		XD8-11X/22	∨	1	1	
	选择开关 2 位 Select switch 2P	XD8-20X/3	∨	1	-	
		XD8-20X/33	∨	1	1	
	带灯选择开关 2 位 Select switch with light switch 2P	XD8-11XD/2	● G	1	1	
			● R	1	1	
			● Y	1	1	
			● B	1	1	
	带灯选择开关 3 位 Select switch with light switch 3P	XD8-20XD/3	● G	2	-	
			● R	2	-	
			● Y	2	-	
			● B	2	-	

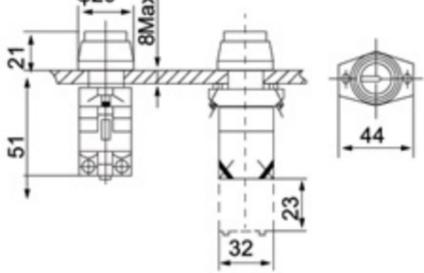
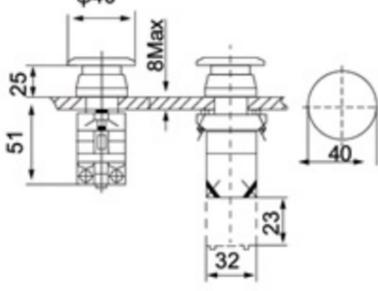
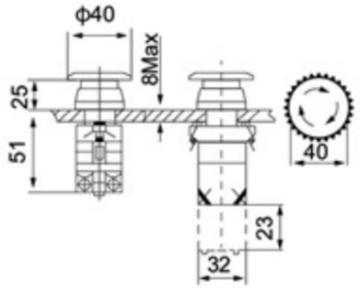
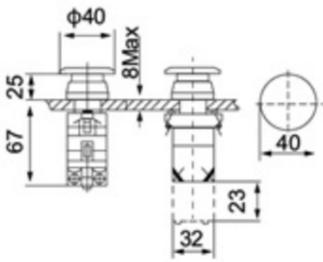
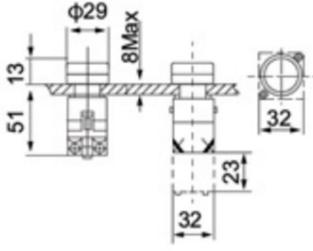
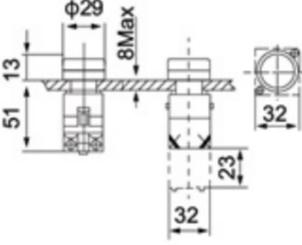
外形图 Picture	品名 Product name	型号 Model	颜色 Color	触点类型 Contact type		产品尺寸图 Structure drawing	
	蘑菇按钮 Mushroom push button switch (金点)	XD8A-11M	<ul style="list-style-type: none"> ● G ● R ● Y ● B 	1	1		
				1	1		
	紧急式蘑菇自锁钮 Emergency stop push button switch (金点)	XD8A-11ZS	<ul style="list-style-type: none"> ● R ● G 	1	1		
				1	1		
	带灯照光式蘑菇钮 Mushroom push button switch with light (金点)	XD8A-11MD	<ul style="list-style-type: none"> ● G ● R ● Y ● B 	1	1		
				1	1		
	不锈钢按钮开关 平头开关 Push button switch (Ø22)	XD8-10G	○ W	1	-		
		XD8-01G		-	1		
		XD8-20G		2	-		
		XD8-02G		-	2		
		XD8-11G		1	1		
	不锈钢按钮开关 平头带灯开关 Push button switch with light (Ø22)	XD8-11GD	○ W	1	1		
				● G	1		1
				● R	1		1
				● Y	1		1
				● B	1		1
	不锈钢按钮开关 平头开关 Push button switch (Ø30)	XD8-10E	○ W	1	-		
		XD8-01E		-	1		
		XD8-20E		2	-		
		XD8-02E		-	2		
		XD8-11E		1	1		
	不锈钢按钮开关 平头带灯开关 Push button switch with light (Ø30)	XD8-11ED	○ W	1	1		
				● G	1		1
				● R	1		1
				● Y	1		1
				● B	1		1

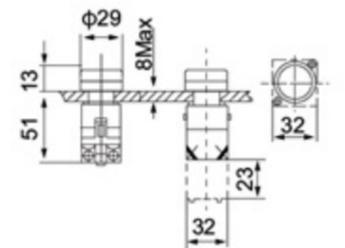
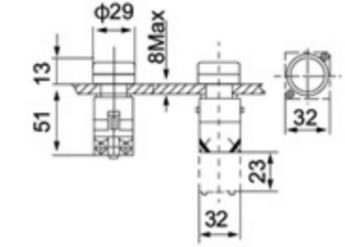
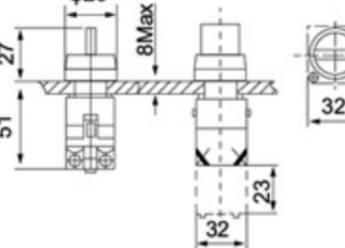
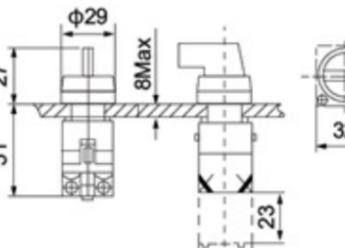
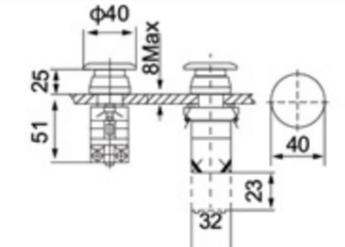
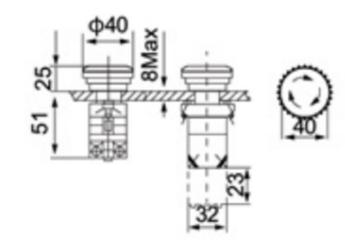
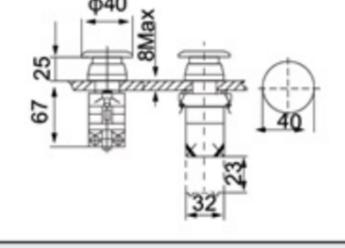
外形图 Picture	品名 Product name	型号 Model	颜色 Color	触点类型 Contact type		产品尺寸图 Structure drawing
	平头开关 Push button Ø30mm	XD8C-11	○ W	1	1	
			● G	1	1	
			● R	1	1	
			● Y	1	1	
			● B	1	1	
	平钮自锁开关 Self-lock button Ø30mm	XD8C-11T	○ W	1	1	
			● G	1	1	
			● R	1	1	
			● Y	1	1	
			● B	1	1	
	蘑菇头开关 Mushroom push button switch Ø30mm	XD8C-11M	● G	1	1	
			● R	1	1	
			● Y	1	1	
			● B	1	1	
	平钮带灯开关 Push button switch with light Ø30mm	XD8C-11D	○ W	1	1	
			● G	1	1	
			● R	1	1	
			● Y	1	1	
			● B	1	1	
	平钮自锁带灯开关 Push button switch spring light Ø30mm	XD8C-11TD	○ W	1	1	
			● G	1	1	
			● R	1	1	
			● Y	1	1	
			● B	1	1	
	选择开关 2 位 Select switch 2P	XD8C-11X/2	∨	1	1	
	选择开关 2 位自返式 Select switch 2P spring	XD8C-11X/22	∨	1	1	
	选择开关 3 位 Select switch 3P	XD8C-20X/3	∨	2	-	
	选择开关 3 位自返式 Select switch 3P spring	XD8C-20X/33	∨	2	-	
	长柄选择开关 2 位 Long handle select switch 2P	XD8C-11XB/2	∨	1	1	
	长柄选择开关 2 位自返式 Long handle select switch 2P spring	XD8C-11XB/22	∨	1	1	
	长柄选择开关 3 位 Long handle select switch 2P	XD8C-20XB/3	∨	2	-	
	长柄选择开关 3 位自返式 Long handle select switch 3P spring	XD8C-20XB/33	∨	2	-	

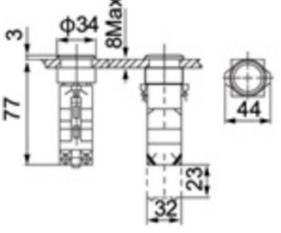
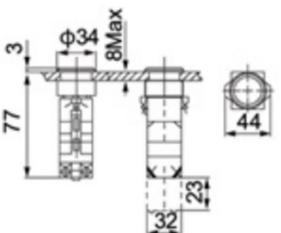
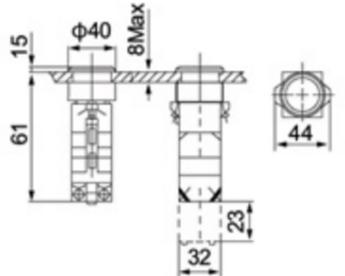
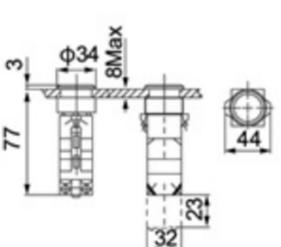
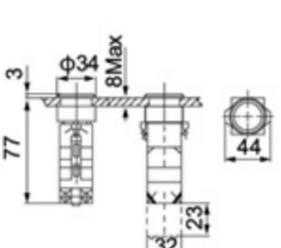
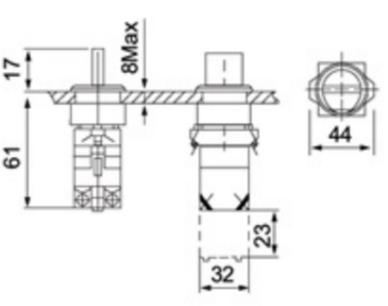
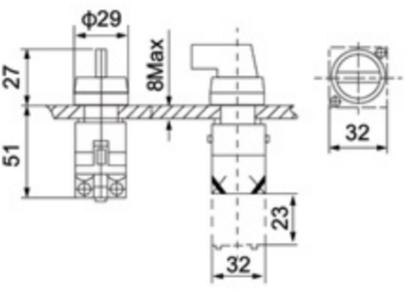
外形图 Picture	品名 Product name	型号 Model	颜色 Color	触点类型 Contact type		产品尺寸图 Structure drawing
	平钮开关 Toggle switch Ø30mm	XD9-11	○ W	1	1	
			● BL	1	1	
			● G	1	1	
			● R	1	1	
			● Y	1	1	
			● B	1	1	
	平钮自锁开关 Self-lock button Ø30mm	XD8C-11T	○ W	1	1	
			● BL	1	1	
			● G	1	1	
			● R	1	1	
			● Y	1	1	
			● B	1	1	
	平钮带灯开关 Push button switch with light Ø30mm	XD8C-11D	○ W	1	1	
			● G	1	1	
			● R	1	1	
			● Y	1	1	
			● B	1	1	
	平钮自锁带灯开关 Push button switch spring light Ø30mm	XD8C-11TD	○ W	1	1	
			● G	1	1	
			● R	1	1	
			● Y	1	1	
			● B	1	1	
	选择开关 2 位 Select switch 2P	XD89-11XB/2	∨	1	1	
	选择开关 2 位自返式 Select switch 2P spring	XD9-11XB/22	∨	1	1	
	选择开关 3 位 Select switch 3P	XD9-20XB/3	∨	2	-	
	选择开关 3 位自返式 Select switch 3P spring	XD9-20XB/33	∨	2	-	
	长柄选择开关 2 位 Long handle select switch 2P	XD9-11X/2	∨	1	1	
	长柄选择开关 2 位自返式 Long handle select switch 2P spring	XD9-11X/22	∨	1	1	
	长柄选择开关 3 位 Long handle select switch 2P	XD9-20X/3	∨	2	-	
	长柄选择开关 3 位自返式 Long handle select switch 3P spring	XD9-20X/33	∨	2	-	

XD9B 按钮开关

Push-button switch

外形图 Picture	品名 Product name	型号 Model	颜色 Color	触点类型 Contact type		产品尺寸图 Structure drawing
	钥匙选择开关 2 位 Select switch with key 2P	XD9-11Y/2	∨	1	1	
	钥匙选择开关 3 位 Select switch with key 3P	XD9-20Y/3	∨	2	-	
	紧急式蘑菇按钮 Mushroom switch	XD9-11M	<ul style="list-style-type: none"> ● G ● R ● Y ● B 	1	1	
				1	1	
	紧急式蘑菇自锁钮 Emergency stop push button switch	XD9-11ZS	<ul style="list-style-type: none"> ● R ● G 	1	1	
				1	1	
	带灯照光式蘑菇钮 Mushroom push button with light	XD9-11MD	<ul style="list-style-type: none"> ● G ● R ● Y ● B 	1	1	
				1	1	
	平头开关 Push button Ø30mm	XD9B-11	<ul style="list-style-type: none"> ○ W ● BL ● G ● R ● Y ● B 	1	1	
				1	1	
				1	1	
				1	1	
				1	1	
				1	1	
	平钮自锁开关 Self-lock button Ø30mm	XD9B-11T	<ul style="list-style-type: none"> ○ W ● BL ● G ● R ● Y ● B 	1	1	
				1	1	
				1	1	
				1	1	
				1	1	
				1	1	

外形图 Picture	品名 Product name	型号 Model	颜色 Color	触点类型 Contact type		产品尺寸图 Structure drawing
	平钮带灯开关 Push button switch with light Ø30mm	XD9B-11D	○ W	1	1	
			● G	1	1	
			● R	1	1	
			● Y	1	1	
			● B	1	1	
	平钮自锁带灯开关 Push button switch spring light Ø30mm	XD9B-11TD	○ W	1	1	
			● G	1	1	
			● R	1	1	
			● Y	1	1	
			● B	1	1	
	选择开关 2 位 Select switch 2P	XD9B-11X/2	∨	1	1	
	选择开关 2 位自返式 Select switch 2P spring	XD9B-11X/22	∧	1	1	
	选择开关 3 位 Select switch 3P	XD9B-20X/3	∨	2	-	
	选择开关 3 位自返式 Select switch 3P spring	XD9B-20X/33	∧	2	-	
	长柄选择开关 2 位 Long handle select switch 2P	XD9B-11XB/2	∨	1	1	
	长柄选择开关 2 位自返式 Long handle select switch 2P spring	XD9B-11XB/22	∧	1	1	
	长柄选择开关 3 位 Long handle select switch 2P	XD9B-20XB/3	∨	2	-	
	长柄选择开关 3 位自返式 Long handle select switch 3P spring	XD9B-20XB/33	∧	2	-	
	紧急式蘑菇钮 Mushroom push button switch	XD9B-11M	● G ● R ● Y ● B	1	1	
			1	1		
	紧急式蘑菇自锁钮 Emergency stop push button switch	XD9B-11ZS	● R ● G	1	1	
			1	1		
	带灯照光式蘑菇钮 Mushroom push button switch with light	XD9B-11MD	● G ● R ● Y ● B	1	1	
			1	1		

外形图 Picture	品名 Product name	型号 Model	颜色 Color	触点类型 Contact type		产品尺寸图 Structure drawing
	平头开关 Push button Ø30mm	XD9C-11	○ W	1	1	
			● G	1	1	
			● R	1	1	
			● Y	1	1	
			● B	1	1	
	平钮自锁开关 Self-lock button Ø30mm	XD9C-11T	○ W	1	1	
			● G	1	1	
			● R	1	1	
			● Y	1	1	
			● B	1	1	
	蘑菇头开关 Mushroom push button switch Ø30mm	XD9C-11M	● G	1	1	
			● R	1	1	
			● Y	1	1	
			● B	1	1	
	平钮带灯开关 Push button switch with light Ø30mm	XD9C-11D	○ W	1	1	
			● G	1	1	
			● R	1	1	
			● Y	1	1	
			● B	1	1	
	平钮自锁带灯开关 Push button switch spring light Ø30mm	XD9C-11TD	○ W	1	1	
			● G	1	1	
			● R	1	1	
			● Y	1	1	
			● B	1	1	
	选择开关 2 位 Select switch 2P	XD9C-11X/2	∨	1	1	
	选择开关 2 位自返式 Select switch 2P spring	XD9C-11X/22	∨	1	1	
	选择开关 3 位 Select switch 3P	XD9C-20X/3	∨	2	-	
	选择开关 3 位自返式 Select switch 3P spring	XD9C-20X/33	∨	2	-	
	长柄选择开关 2 位 Long handle select switch 2P	XD9C-11XB/2	∨	1	1	
	长柄选择开关 2 位自返式 Long handle select switch 2P spring	XD9C-11XB/22	∨	1	1	
	长柄选择开关 3 位 Long handle select switch 2P	XD9C-20XB/3	∨	2	-	
	长柄选择开关 3 位自返式 Long handle select switch 3P spring	XD9C-20XB/33	∨	2	-	

产品概述 Product overview

规格:产品前框形状有圆形(Ø18mm)、方形(Ø18*18mm)矩形(18*24mm)三种规格,包含信号指示灯、按钮、带灯按钮、旋钮、钥匙钮、急停钮、蜂鸣器,其常规安装孔径中Ø16mm,部分产品可加装变径圈使产品安装在Ø22mm的面板中。

性能:产品具有性能稳定、接触电阻小,耐振动耐冲性等特点,符合IEC60947-5-1、GB14048.5等标准。结构:开关元件“快动”结构,每个开关元件包换-常开-常闭,每只按钮最多可配置2个开关元件。防护等级:自身防护等级有IP40、IP65可选,部分产品加装密封罩后可达IP67。

Specification: the shape of the front frame is round (Ø 18mm), square (Ø There are three kinds of specifications (18 * 18mm) rectangular (18 * 24mm), including signal indicator, button, button with light, knob, key button, emergency stop button and buzzer Ø 16mm, some products can be installed with variable diameter ring, so that the product can be installed in the Ø 22 mm.

Performance: the product has the characteristics of stable performance, small contact resistance, vibration resistance and impact resistance, and meets the standards of iec60947-5-1 and gb14048.5. Structure: switch element “quick action” structure, each switch element can be changed - normally open - normally closed, each button can be configured with up to 2 switch elements. Protection grade: self protection grade is IP40 and IP65, and some products can reach IP67 after installing sealing cover.

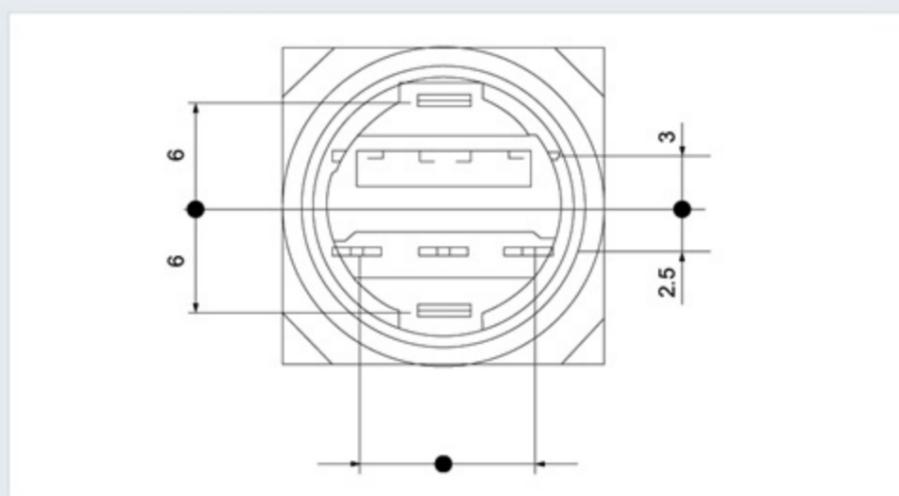
灯珠规格 Base specifications

灯珠类型 LED type	双向 LED 灯珠 (常规配置) Bi directional led beads (conventional configuration)			氖泡灯珠 Neon bulb	
额定电压 LED type	AC/DC 6V	AC/DC 12V	AC/DC 24V	AC110V	AC220V
	AC/DC 110V	AC/DC 220V			
灯珠颜色 LED color	R G				
灯珠寿命 LED Life	≥20000 小时 More than 20000 hours				

安装孔产品尺寸图 Product dimension drawing of mounting hole

类别	A	B
圆形	≥18mm	≥18mm
方形	≥18mm	≥18mm
矩形	≥18mm	≥24mm
蘑菇形	≥24mm	≥24mm
大方形	≥24mm	≥24mm
大矩形	≥18mm	≥24mm

底部预览 Bottom Preview



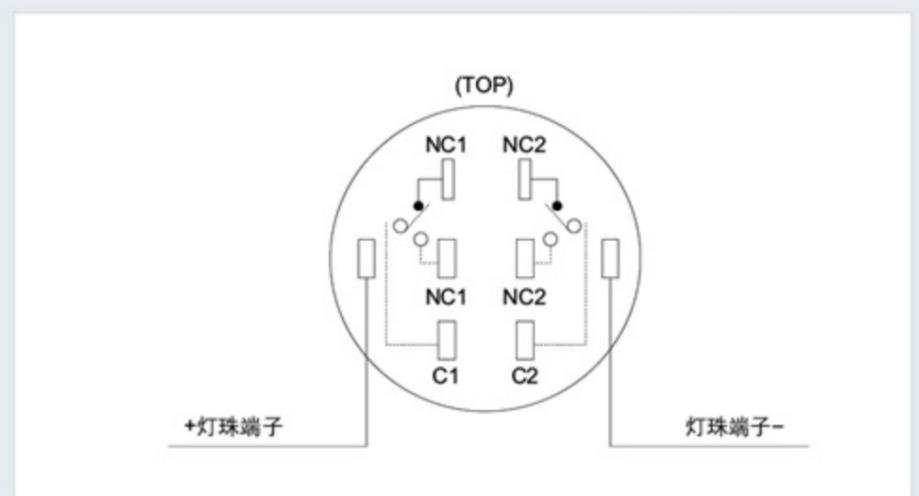
开关额定值 Switch rating

发热电流 I _{th} Thermoelectric current	5A 温度不超过最大额定值锁允许的电流 5A temperature does not exceed the maximum rated current allowed by the lock		
额定电压 Rated voltage	24V	125V(110V)	250V(220V)
直流 DC	1A	0.2A	0.1A
交流 AC	P.F=1	5A	3A
	P.F=0.7	3A	2A

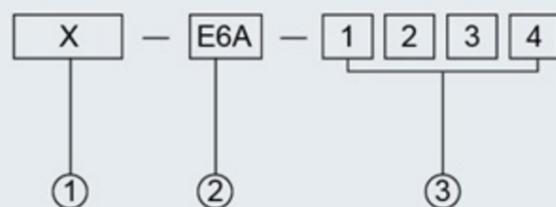
特性 Characteristic

工作环境温度 Working environment temperature	-20℃ ~+55℃	绝缘电阻 Insulation resistance	≤50MΩ		
工作环境湿度 Working environment humidity	40~85%RH(无结露) 40~85% RH (no condensation)	接触电阻 Contact resistance	≥100MΩ		
触点压力 Contact pressure	约 0.3 牛顿 (约 30 克) About 0.3 n (about 30 g)	额定绝缘电压 Rated insulation voltage	250V, AC/DC		
最高耐压 Maximum withstand voltage	触点与灯珠引脚之间 2000V, AC50Hz, 1min 2000V, AC50Hz, 1min between contact and lamp ball pin				
	同极端子之间 1000V, AC50Hz, 1min 1000V, AC50Hz, 1min between terminals of the same pole				
	不同电极端子之间 2000V, AC50Hz, 1min Between different electrode terminals, 2000V, AC50Hz, 1min				
耐振动性 Vibration resistance	50Hz, 振幅约 1.2mm 50 Hz, amplitude about 1.2 mm				
耐冲击性 Impact resistance	≥10g	操作力 Operation force	2~5N		
寿命 Life	机械 Mechanics	自复钮 Auto reset button	100 万次 1000000 times	操作行程 Operating stroke (按钮) 约 3mm (Button) about 3mm	
		自锁钮 Self locking button	50 万次 500000 times		银 Silver
		钥匙钮 Key button	20 万次 200000 times		银合金 Silver alloy
电气 Electrical	5 万次以上 More than 50000 times	触点材料 Contact material	银镀金, 镀层厚 3 μm Silver and gold plating with thickness of 3 μm		
防护等级 Protection level	IP40(密封型)、IP65(防水型) IP40 (sealed type), IP65 (waterproof type)				

端子排列 Terminal arrangement



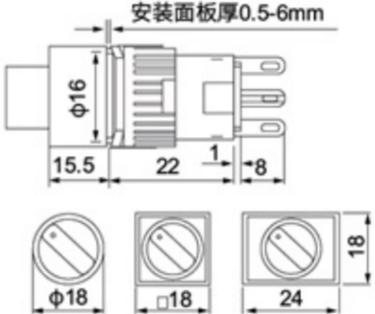
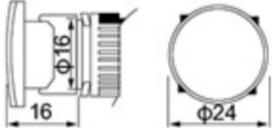
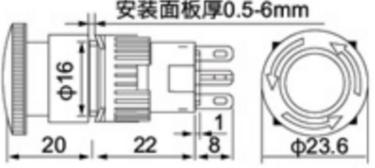
型号说明 Model Number Structure



项目 Item	代号 Code	说明 Description
① 按钮开关型号 The type of button switch	X	按钮开关型号 Button switch model
② 设计代号 Design code	E6A	设计代号 Design code
③ 派生代号及辅助规格代号, 表示按钮操作方式, 常开常闭触头数、颜色等 Derived code and auxiliary specification code, indicating button operation mode, number and color of normally open and normally closed contacts, etc	1,2,3,4	派生代号及辅助规格代号, 表示按钮操作方式, 常开常闭触头数、颜色等 Derived code and auxiliary specification code, indicating button operation mode, number and color of normally open and normally closed contacts, etc

外形图 Picture	品名 Product name	型号 Model	颜色 Color	操作类型 Contact type	产品尺寸图 Structure drawing		
	信号灯 Indicator Ø16	圆形 Round	<ul style="list-style-type: none"> ● G ● R ● Y ● B ○ W 	指示灯 Indicator light	<p>红、绿、黄、蓝、白可带灯,全部采用LED发光二极管</p> <p>R/G/Y/B/W could be with LED</p>		
		方形 Square				XE6A-FXD	
		矩形 Rectangle				XE6A-JXD	
	自复按钮 Push button Ø16	圆形 Round		XE6A-11		自复式 Spring type	
				XE6A-22			
		方形 Square		XE6A-11F			
				XE6A-22F			
		矩形 Rectangle		XE6A-11J			
				XE6A-22J			
	自锁按钮 Self-locking push button Ø16	圆形 Round		XE6A-11T		自锁式 Self-locking	
				XE6A-22T			
		方形 Square		XE6A-11TF			
			XE6A-22TF				
		矩形 Rectangle	XE6A-11TJ				
			XE6A-22TJ				
	自复带灯按钮 Push button with light switch Ø16	圆形 Round	XE6A-11D	<ul style="list-style-type: none"> ● G ● R ● Y ● B ○ W 	带灯自复式 Push button with light		
			XE6A-22D				
		方形 Square	XE6A-11FD				
			XE6A-22FD				
		矩形 Rectangle	XE6A-11JD				
			XE6A-22JD				
	自锁带灯按钮 Self-locking with light switch Ø16	圆形 Round	XE6A-11TD		带灯自锁式 Self-locking with light		
			XE6A-22TD				
		方形 Square	XE6A-11TFD				
			XE6A-22TFD				
		矩形 Rectangle	XE6A-11TJD				
			XE6A-22TJD				

订货须知: 形状: 长方形、正方形; 圆形操作类型: 指示灯、自复式; 自锁式触头类型: 11代表一开一闭触头、22代表二开二闭触头。
Shape: Rectangle, Square, Round; Type of operation: Indicator, Resettable; Self-locking contact type: 11: 1NO1NC, 22: 2NO2NC.

外形图 Picture	品名 Product name	型号 Model	颜色 Color	操作类型 Contact type	产品尺寸图 Structure drawing			
	圆形二位置 Round 2 position	XE6A-11X/2	● BL ● G ● R	∨	 <p>安装面板厚0.5-6mm</p>			
	方形二位置 Square 2 position	XE6A-11FX/2						
	矩形二位置 Rectangle 2 position	XE6A-11JX/2		∨				
	圆形三位置 Round 3 position	XE6A-22X/3						
	方形三位置 Square 3 position	XE6A-22FX/3						
	矩形三位置 Rectangle 3 position	XE6A-22JX/3						
	普通蘑菇钮 Mushroom push button switch spring Ø16	XE6A-11M XE6A-22M	● G ● R ● Y ● B	自复式 Spring type				
	自锁蘑菇钮 Mushroom push button switch maintain Ø16	XE6A-11MT XE6A-22MT		自锁式 Self-locking				
	蘑菇带灯 Mushroom push button with light Ø16	XE6A-11MD XE6A-22MD		自复式 Spring type				
		圆形 Round key push button switch		二位置 2 position XE6A-11Y/2		● BL	∨	 <p>安装面板厚0.5-6mm</p>
		方形 Square key push button switch		二位置 2 position XE6A-22Y/2			∨	
				三位置 3 position XE6A-22Y/3			∨	
二位置 2 position XE6A-11FY/2			∨					
矩形 Rectangle key push button switch		二位置 2 position XE6A-22FY/2	∨					
		三位置 3 position XE6A-22FY/3	∨					
	二位置 2 position XE6A-11JY/2	∨						
	紧急钮 Emergency switch Ø16	XE6A-11ZS	● G	自锁式 Self-locking	 <p>安装面板厚0.5-6mm</p>			
		XE6A-22ZS	● R					
	蜂鸣器 Buzzer Ø16	XE6A-Y-B		-	常规 24V 以下 Under normal 24 V			
		XE6A-F-B	● BL	-				
		XE6A-J-B		-				

产品概述 Product overview

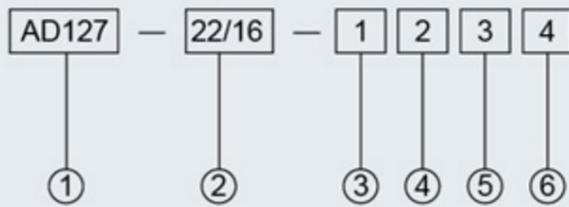
规格:产品前框形状有圆形(Ø18mm)、方形(Ø18*18mm)矩形(18*24mm)三种规格,包含信号指示灯、按钮、带灯按钮、旋钮、钥匙钮、急停钮、蜂鸣器,其常规安装孔径中Ø16mm,部分产品可加装变径圈使产品安装在Ø22mm的面板中。

性能:产品具有性能稳定、接触电阻小,耐振动耐冲性等特点,符合IEC60947-5-1、GB14048.5等标准。结构:开关元件“快动”结构,每个开关元件包换-常开-常闭,每只按钮最多可配置2个开关元件。防护等级:自身防护等级有IP40、IP65可选,部分产品加装密封罩后可达IP67。

Specification: the shape of the front frame is round (Ø 18mm), square (Ø There are three kinds of specifications (18 * 18mm) rectangular (18 * 24mm), including signal indicator, button, button with light, knob, key button, emergency stop button and buzzer Ø 16mm, some products can be installed with variable diameter ring, so that the product can be installed in the Ø 22 mm.

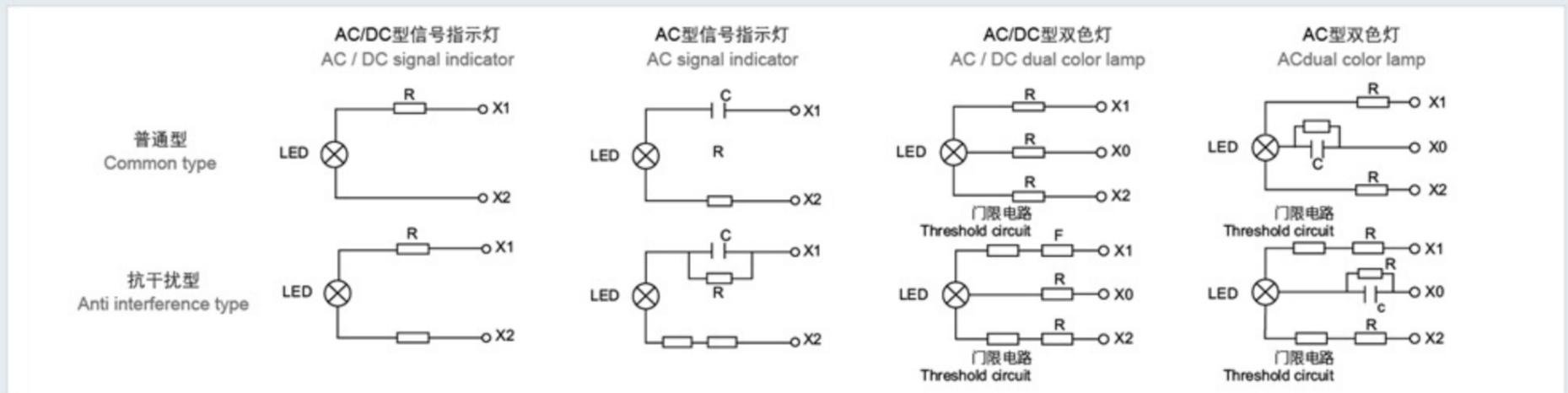
Performance: the product has the characteristics of stable performance, small contact resistance, vibration resistance and impact resistance, and meets the standards of iec60947-5-1 and gb14048.5. Structure: switch element “quick action” structure, each switch element can be changed - normally open - normally closed, each button can be configured with up to 2 switch elements. Protection grade: self protection grade is IP40 and IP65, and some products can reach IP67 after installing sealing cover.

型号说明 Model Number Structure



项目 Item	说明 Description
① 型号 Model	信号灯型号 Signal lamp model
② 尺寸图 Dimensional drawing	颈部产品尺寸图 Design code
③ 风格 Style	A、B、C、D、E表示不同外观风格 A, B, C, D and e indicate different appearance styles
④ 类型 Type	无字母为标准型,“S”表示超短型壳体,“F”表示可装于电容器柜的放电灯 No letter is standard type, “s” stands for ultra short shell, “F” stands for discharge lamp which can be installed in capacitor cabinet
⑤ 颜色 Color	颜色 Color
⑥ 电压 Voltage	电压 Voltage

内部接线示意图 Internal wiring diagram



注: 1、AC/DC型信号指示灯为电阻降压式, AC型信号指示灯为阻容降压式; 2、110V及以上电压时, AC/DC型信号指示灯的外壳温升高于AC型信号指示灯。

Note: 1. The AC / DC signal lamp is of resistance step-down type, and the AC signal lamp is of resistance capacitance step-down type; 2. When the voltage is 110V or above, the shell temperature rise of AC / DC signal indicator is higher than that of AC signal indicator.

性能特征 Performance characteristics

- 连续工作寿命: ≥30000小时
- 允许瞬时电压波动 ± 20%(110V以上)
- 工频耐压: 2.5kV(交流有效值), 1min
- 使用频率(AC): 50~60Hz
- 额定工作电流: ≤20mA
- 光亮度: ≥100cd/m²
- 绝缘电阻Ui: ≤60V5MΩ
- 发光颜色: 红、绿、黄、白、蓝

Continuous working life: ≥ 30000 hours

Allowable instantaneous voltage fluctuation ± 20% (above 110V)

Power frequency withstand voltage: 2.5KV (AC RMS), 1min

Operating frequency (AC): 50 ~ 60Hz

Rated working current: ≤ 20mA

Brightness: ≥ 100cd/m²

Insulation resistance UI: ≤ 60v5m Ω Luminous color: red, green, yellow, white, blue

订货须知 Order instructions

- 1、A-B、C-D、E-F相对应主要接线方式不同, 带S的为超短型;
- 2、AC型信号指示灯的使用频率为50~60Hz, 在其他频率段使用会损坏信号指示灯;
- 3、抗干扰信号指示灯一般门限值在40V以下, 如果需要高的门限值请说明; 建议门限值不要过高, 如干扰电压过高, 请检查布线情况;
- 4、AC双色灯不允许接线错误, 否则会损坏信号指示灯;
- 5、如有DC-220V、380V时, 应注意散热条件, 并不可以密集安装。

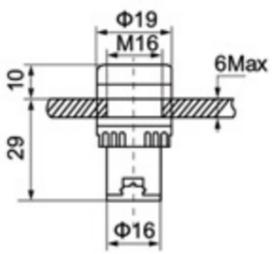
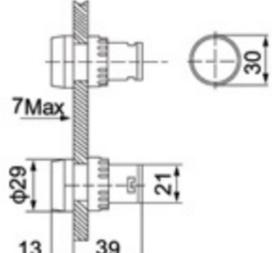
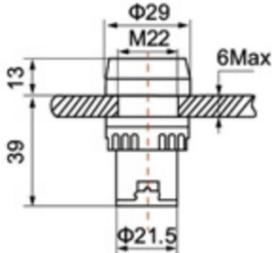
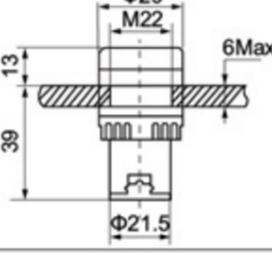
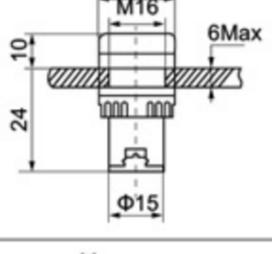
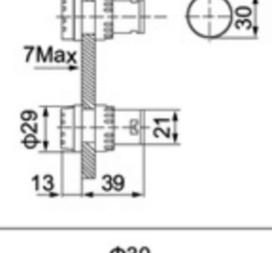
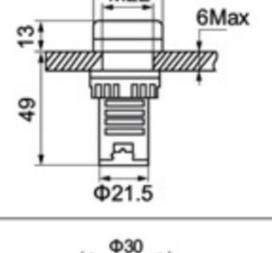
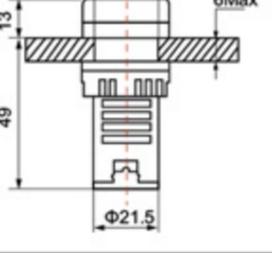
1. The main wiring modes of A-B, C-D and E-F are different, and those with s are ultra short;

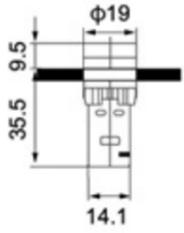
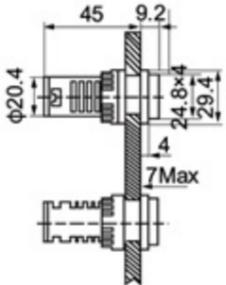
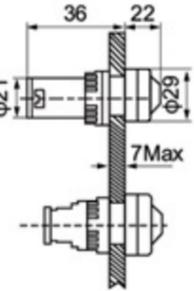
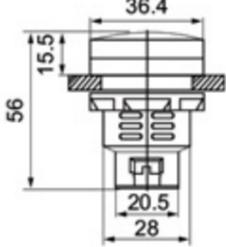
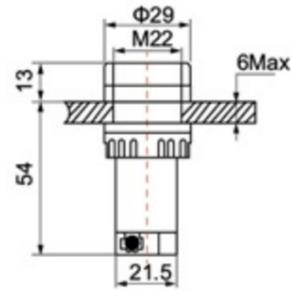
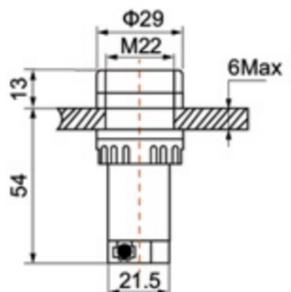
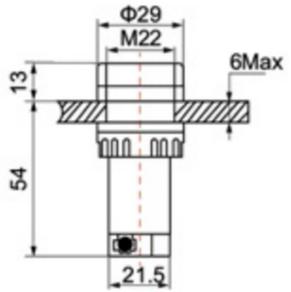
2. The use frequency of AC signal lamp is 50 ~ 60Hz, and the signal indicator lamp will be damaged if it is used in other frequency bands;

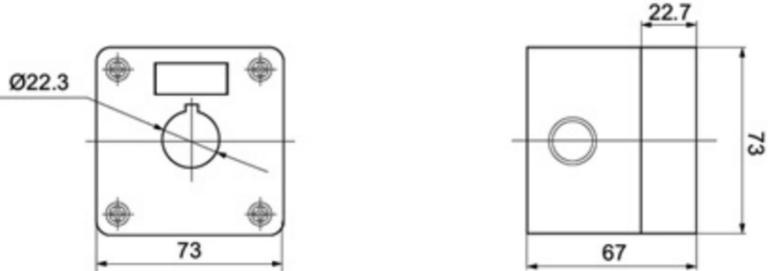
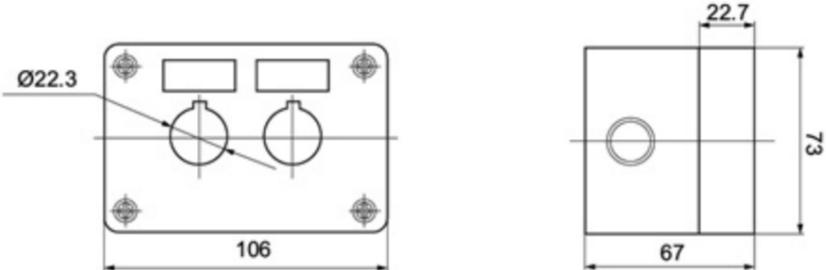
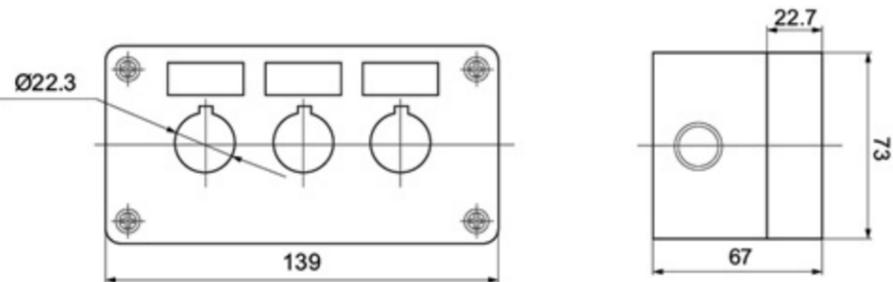
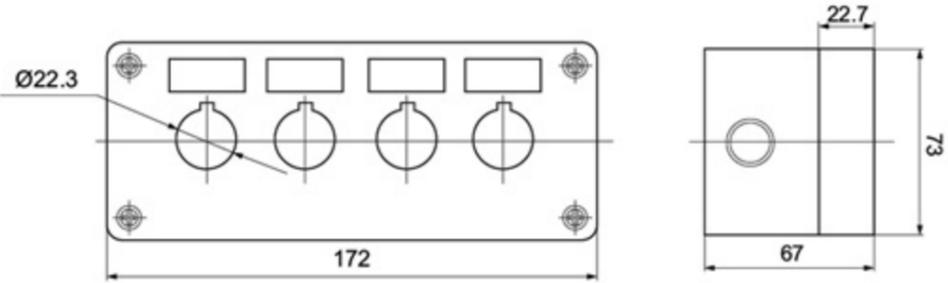
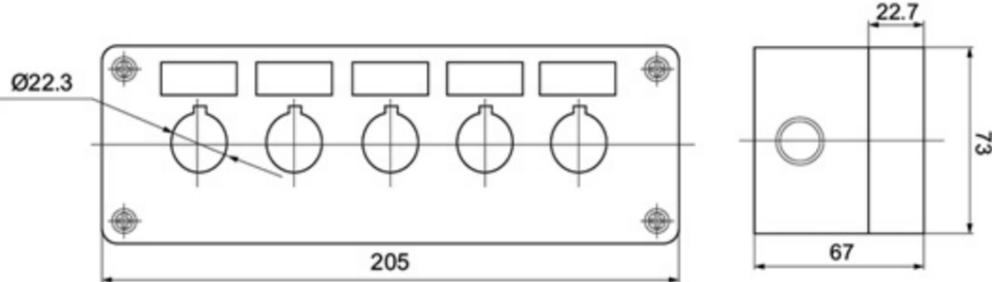
3. Generally, the threshold value of anti-interference signal indicator is below 40V. If a high threshold value is required, please explain; It is suggested that the threshold value should not be too high. If the interference voltage is too high, please check the wiring;

4. AC double color lamp is not allowed to connect wrong, otherwise it will damage the signal indicator;

5. If dc-220v, 380V, should pay attention to heat dissipation conditions, can not be installed intensively.

外形图 Picture	品名 Product name	型号 Model	颜色 Color	产品尺寸图 Structure drawing	
	LED 线路板 新型 (抗干扰带放电功能一体) New type (Interference with the discharge of the functions a)	AD127-22A	● G		
			● R		
			● Y		
			● B		
			○ W		
	LED 组合式信号灯 安装产品尺寸图 Ø22 (LED 已预装成一体不可拆分) The LED electronics economy energy indicator install structure drawing Ø22 (The LED has already prepared to pack into integral whole and can't dismantle a cent)	AD127-22B/S	● G		
			● R		
			● Y		
			● B		
			○ W		
	LED 组合式信号灯 安装产品尺寸图 Ø22 (LED 已预装成一体不可拆分) The LED electronics economy energy indicator install structure drawing Ø22 (The LED has already prepared to pack into integral whole and can't dismantle a cent)	AD127-22C/S	● G		
			● R		
			● Y		
			● B		
			○ W		
	LED 短尾款组合式信号灯 安装产品尺寸图 Ø22 (LED 已预装成一体不可拆分) The LED electronics economy energy indicator install structure drawing Ø22 (The LED has already prepared to pack into integral whole and can't dismantle a cent)	AD127-22D/S	● G		
			● R		
			● Y		
			● B		
			○ W		
	LED 长尾款组合式信号灯 安装产品尺寸图 Ø22 (LED 已预装成一体不可拆分) The LED electronics economy energy indicator install structure drawing Ø22 (The LED has already prepared to pack into integral whole and can't dismantle a cent)	AD127-22D	● G		
			● R		
			● Y		
			● B		
			○ W		
	LED 组合式信号灯 安装产品尺寸图 Ø22 (LED 已预装成一体不可拆分) The LED electronics economy energy indicator install structure drawing Ø22 (The LED has already prepared to pack into integral whole and can't dismantle a cent)	AD127-22E/S	● G		
			● R		
			● Y		
			● B		
			○ W		
	LED 组合式信号灯 安装产品尺寸图 Ø22 (LED 已预装成一体不可拆分) The LED electronics economy energy indicator install structure drawing Ø22 (The LED has already prepared to pack into integral whole and can't dismantle a cent)	AD127-16D/S	● G		
			● R		
			● Y		
			● B		
			○ W		
	蜂鸣器 Ø22 Buzzer	不闪光带鸣 (FM) Non flashing band sound (FM)	AD127-22FM	● BL	
		闪光带鸣 (FM) Flashing band sound (FM)	AD127-22SM	● R	
	蜂鸣器 Ø16 Buzzer	不闪光带鸣 (FM) Non flashing band sound (FM)	AD127-16FM	● BL	
		闪光带鸣 (FM) Flashing band sound (FM)	AD127-16SM	● R	

外形图 Picture	品名 Product name	型号 Model	颜色 Color	产品尺寸图 Structure drawing
	LED 组合式信号灯 安装产品尺寸图 Ø16 (LED 已预装成一体不可拆分) The LED electronics economy energy indicator install structure drawing Ø16(The LED has already prepared to pack into integral whole and can't dismantle a cent)	AD127-16C/S	● G ● R ● Y ● B ○ W	
	LED 组合式信号灯 安装产品尺寸图 Ø22 (LED 已预装成一体不可拆分) The LED electronics economy energy indicator install structure drawing Ø22 (The LED has already prepared to pack into integral whole and can't dismantle a cent)	AD127-22F	● G ● R ● Y ● B ○ W	
	LED 组合式信号灯 安装产品尺寸图 Ø30 (LED 已预装成一体不可拆分) The LED electronics economy energy indicator install structure drawing Ø30 (The LED has already prepared to pack into integral whole and can't dismantle a cent)	AD127-22HS	● G ● R ● Y ● B ○ W	
	LED 组合式信号灯 安装产品尺寸图 Ø22 (LED 已预装成一体不可拆分) The LED electronics economy energy indicator install structure drawing Ø22 (The LED has already prepared to pack into integral whole and can't dismantle a cent)	AD127-30D	● G ● R ● Y ● B ○ W	
	双色闪光灯安装产品尺寸图 Ø22 Two color flash installation product dimension drawing Ø twenty-two	AD127-22 S2	● R ● G ● B ○ W	
	单色闪光灯: AD127-22 S1 (可以选择 B、C、D、E、H 等外型) Monochrome flash: ad127-22 S1 (you can choose B, C, D, e, h, etc.)	AD127-22 S1	● R ● G ● Y	
	X ₀ X ₁ 通电时会发红光 X ₀ X ₁ power on red light	AD127-22W/G	● R ● G ● R ● G	
	X ₁ X ₂ 通电时会发红光 X ₁ X ₂ power on red light	AD127-22W/N	● R ● G	

外形图 Picture	品名 Product name	产品尺寸图 Structure drawing
	<p>一孔按钮盒 代号: F-18 颜色: 白色 代号: F-53 颜色: 黄色 One hole button box Code: F-18 Color: White Code: F-53 Color: Yellow</p>	
	<p>二孔按钮盒 代号: F-19 颜色: 白色 代号: F-54 颜色: 黄色 Two hole button box Code: F-19 Color: White Code: F-54 Color: Yellow</p>	
	<p>三孔按钮盒 代号: F-20 颜色: 白色 代号: F-55 颜色: 黄色 Three hole button box Code: F20 Color: White Code: F-55 Color: Yellow</p>	
	<p>四孔按钮盒 代号: F-21 颜色: 白色 代号: F-56 颜色: 黄色 Four hole button box Code: F-21 Color: White Code: F-56 Color: Yellow</p>	
	<p>五孔按钮盒 代号: F-22 颜色: 白色 代号: F-57 颜色: 黄色 Five hole button box Code: F-22 Color: White Code: F-57 Color: Yellow</p>	

PTK13F系列 电压 Voltage: 24V、36V、110V、220V、380V



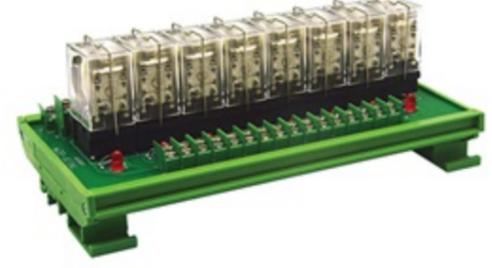
PTK13F-(2)24



PTK13F-(4)24



PTK13F-(6)24

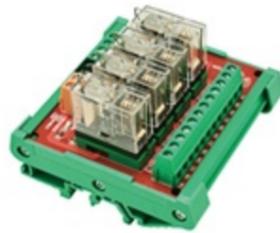


PTK13F-(8)24

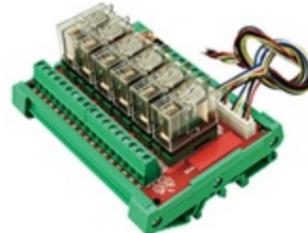
POEM(板)系列 电压 Voltage: 24V、36V、110V、220V、380V



POEM(2)



POEM(4)



POEM(6)



POEM(8)



POEM(10)



POEM(12)



POEM(14)

PTKG2R1E-KA系列 电压 Voltage: 24V、36V、110V、220V、380V



PTKG2R1E-KA(1)



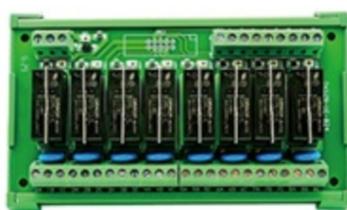
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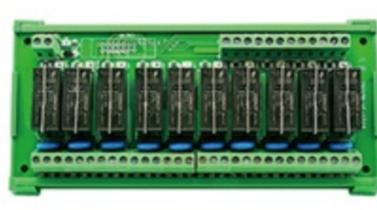
PTKG2R1E-KA(4)



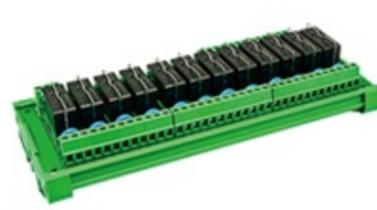
PTKG2R1E-KA(6)



PTKG2R1E-KA(8)



PTKG2R1E-KA(10)



PTKG2R1E-KA(12)



PTKG2R1E-KA(14)

PSCSI-()P系列 电压 Voltage: 24V、36V、110V、220V、380V



PSCSI-(14)P



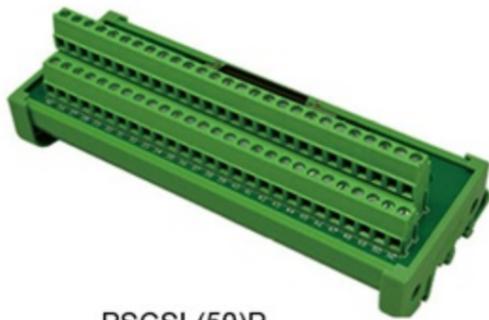
PSCSI-(20)P



PSCSI-(26)P



PSCSI-(36)P



PSCSI-(50)P



PSCSI-(68)P

线路板宽度50mm系列

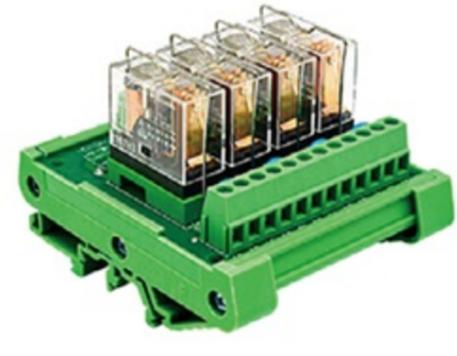
PTKG2R系列 电压 Voltage: 24V、36V、110V、220V、380V



PTKG2R(1)



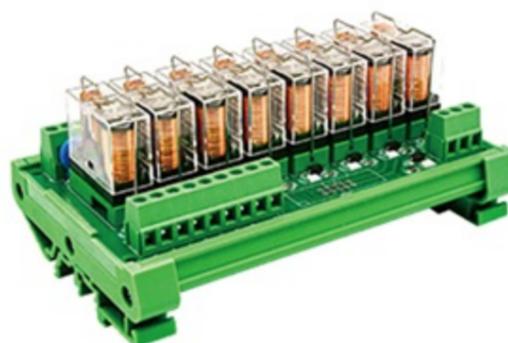
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PTKG2R(4)



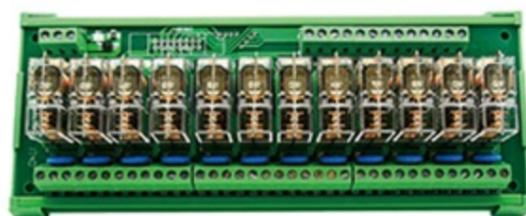
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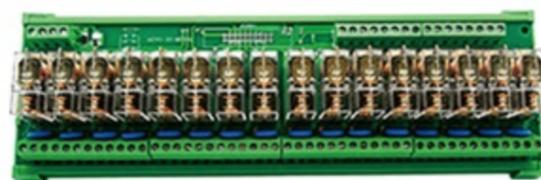
PTKG2R(8)



PTKG2R(10)



PTKG2R(12)



PTKG2R(16)

PTKAM-()24系列 电压 Voltage: 24V、36V、110V、220V、380V



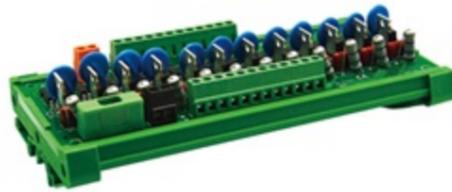
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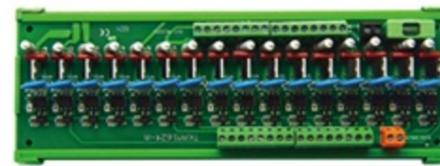
PTKAM-(6)24



PTKAM-(8)24



PTKAM-(12)24



PTKAM-(16)24

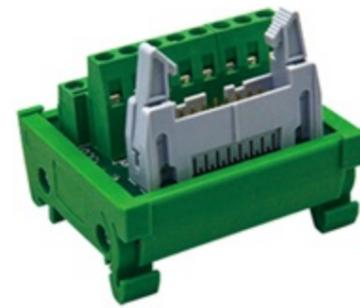
PIDC()P-C系列 电压 Voltage: 24V、36V、110V、220V、380V



PIDC(10)P-C



PIDC(14)P-C



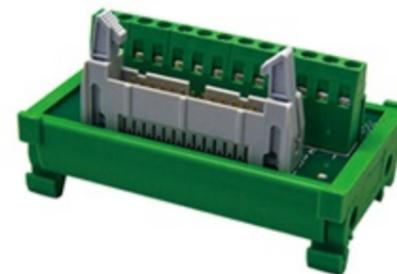
PIDC(16)P-C



PIDC(20)P-C



PIDC(24)P-C



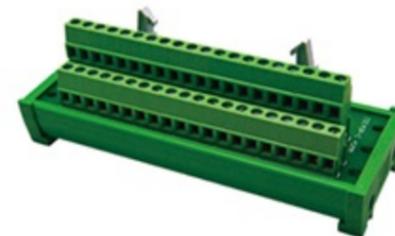
PIDC(26)P-C



PIDC(30)P-C



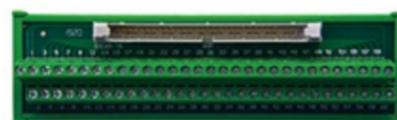
PIDC(34)P-C



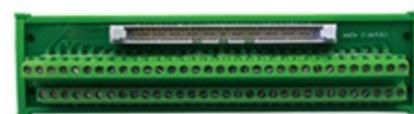
PIDC(40)P-C



PIDC(50)P-C



PIDC(60)P-C



PIDC(64)P-C



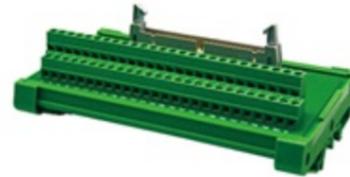
PIDC()P-TB系列 电压 Voltage: 24V、36V、110V、220V、380V



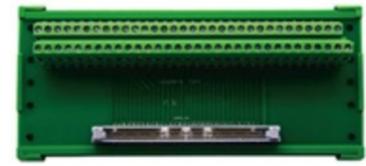
PIDC(20)P-TB



PIDC(40)P-TB



PIDC(50)P-TB



PIDC(64)P-TB

PTKDM-5A-()24系列 电压 Voltage: 24V、36V、110V、220V、380V



PTKDM-5A-(1)24



PTKDM-5A-(2)24



PTKDM-5A-(4)24



PTKDM-5A-(6)24



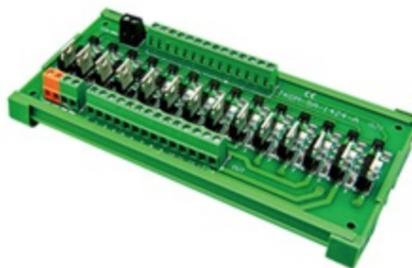
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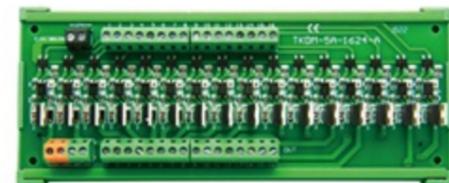
PTKDM-5A-(10)24



PTKDM-5A-(12)24



PTKDM-5A-(14)24



PTKDM-5A-(16)24

PTKDM-3A-()24系列 电压 Voltage: 24V、36V、110V、220V、380V



PTKDM-3A-(4)24



PTKDM-3A-(6)24



PTKDM-3A-(8)24



PTKDM-3A-(10)24



PTKDM-3A-(12)24



PTKDM-3A-(14)24



PTKDM-3A-(16)24



PTKDM-3A-(18)24



PTKDM-3A-(20)24



PTKDM-3A-(22)24



PTKDM-3A-(24)24



PTKDM-3A-(26)24



PTKDM-3A-(28)24



PTKDM-3A-(30)24



PTKDM-3A-(32)24

PTKLGD系列传感器端子台 电压 Voltage: 24V、36V、110V、220V、380V
PTKLGD Series Sensor Terminal Block



PTKLGD(4)



PTKLGD(6)



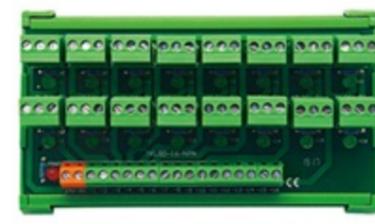
PTKLGD(8)



PTKLGD(10)



PTKLGD(12)



PTKLGD(16)

PTK13F 电压 Voltage: 24V、36V、110V、220V、380V



PTK13F(2)



PTK13F(4)



PTK13F(6)

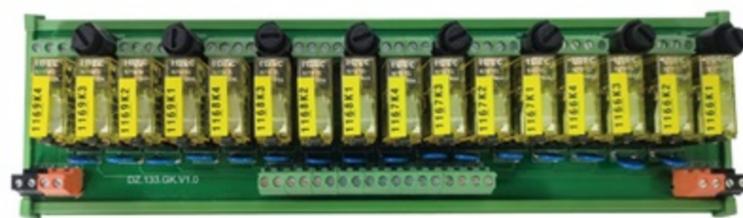


PTK13F(8)

行业专用系列继电器模组 电压 Voltage: 24V、36V、110V、220V、380V
Industry Specific Series Relay Module



DZ.125GKV1.0



DZ.133GK.V1.0



IDC端子台

锂电池窑炉专用系列母线槽 电压 Voltage: 380V 电流 Current: 35A
Special series bus duct for lithium battery kiln

注: 长度按实际环境定制
Note: the length is customized according to the actual environment



PCA-1.7(1.7米)



PCA-2.1(2.1米)



PCA-20(2米)



插头连接线



两端连接件



末端封套

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网站 / Web: <http://www.gdbainengbao.com>

地址:

广东省佛山市南海区狮山镇罗务路长信银湾寓米公寓2楼

(展厅: 机柜附材、成套电气设备)

广东省佛山市南海区狮山镇罗村城南路旺电机电

(门市部: 工业电气、电气自动化、气动器材)

广东省佛山市南海区狮山镇务柏路11号(车间)

广东省佛山市南海区新光源产业基地D区04栋(车间)

Address:

2F, Yumi apartment, Changxin Yinwan, luowu Road, Shishan town, Nanhai District, Foshan City, Guangdong Province(Exhibition hall: cabinet accessories, complete sets of electrical equipment)

Shishan town, Nanhai District, Foshan City, Guangdong Province No. 11 WUBAI Road, Shishan town, Nanhai District, Foshan City, Guangdong Province (workshop)

Building 04 (workshop), Zone D, new light source industrial base, Nanhai District, Foshan City, Guangdong Province