

CJF 扁平形接近开关 (高端型)

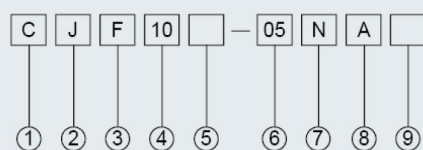
Proximity Sensor Flat Type (High-end type)



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	C	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
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

型号名 Model	CJF10-05LA CJF10-05NA CJF10-05NB CJF10-05PA CJF10-05PB	CJF11-06LA CJF11-06NA CJF11-06NB CJF11-06PA CJF11-06PB	CJF12-07LA CJF12-07NA CJF12-07NB CJF12-07PA CJF12-07PB
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 50/60Hz 1 分钟 1500VAC 50/60Hz for 1 minute		
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。

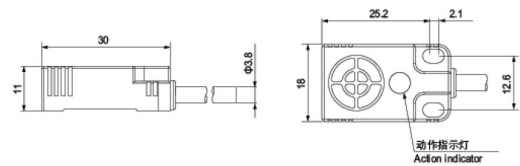
※ 标准产品和 IEC 标准的功能和规格是一样的。

(※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.

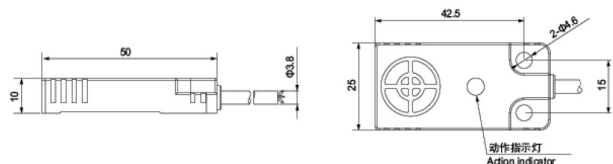
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外观和尺寸 Appearance and Dimension

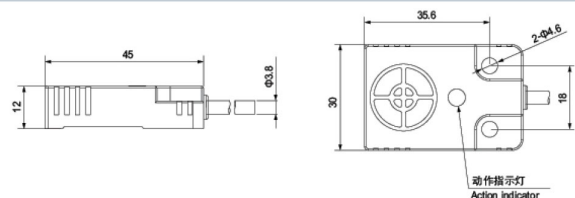
CJF10-05



CJF11-06

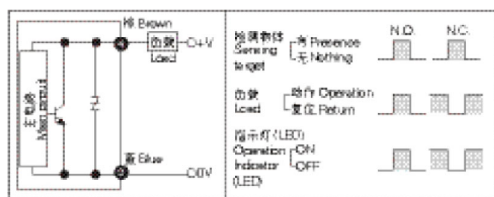


CJF12-07

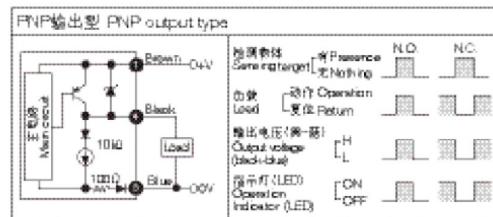
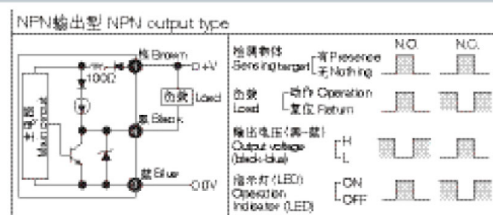


输出电路 Control Output Diagram

直流 2 线式 DC 2-wire type



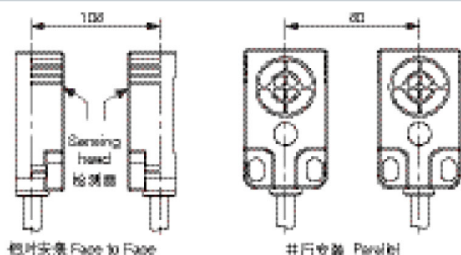
直流 3 线式 DC 3-wire type



正确使用 Proper Usage

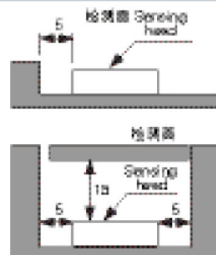
相互干扰 Mutual-interference

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不等时
- ※ When the height between the proximity sensor and surrounding metals is different.