



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, enconomic price
- Red LED status indication, easy to confirm work situation
- Protection structure IP67(IEC standard)
- Replaceable for limit switches



选型说明 Model Designation

CJ Y 12 S □ - 08 D N A / □ □ - L2

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

序号 No	项目 Item	代号 Code	说明 Description
①	分类代号 Classification code	CJ	电感式 Inductive type
②	外形代号 Shape code	Y	圆柱形金属铜管 Cylindrical copper tube of metal
		RG	圆柱形不锈钢管 Cylindrical stainless steel tube
		RS	圆柱形塑料管 Cylindrical plastic pipe
③	尺寸代码 Size code	12	08=M8、12=M12、18=M18、30=M30
④	产品类型 Product type	S	远距离型 Distant type
⑤	螺纹长度 Thread length	无 None	标准型 Normal form
		L	长螺纹型 Long thread type
⑥	检测距离 Detection distance	08	02=2mm、04=4mm、08=8mm、10=10mm、16=16mm、20=20mm、25=25mm
⑦	工作电压 Operating voltage	A	90...250VAC
		D	10...30VDC
		E	20...60VDC
⑧	输出方式 Output mode	N	NPN
		P	PNP
		K	AC 二线 2 Wires
		L	DC 二线 2 Wires
⑨	输出状态 Output state	A	NO
		B	NC
		C	NO+NC
⑩	连接形式 Connection form	无 None	引线式自由出线端 Lead type free outlet end
		M	M12针式 直头 4芯 A编码 M12 pin straight head 4-core A coding
		M□□□□	M型接插件 M□□□□ M-type connector M□□□□
		D□□□□	DT型接插件 D□□□□ DT-type connector D□□□□
		A□□□□	AMP型接插件 A□□□□ AMP-type connector A□□□□
		S□□□□	SM型接插件 S□□□□ SM-type connector S□□□□

⑪	电线材质 Wire material	无 None	PVC
		U	PUR
		VP	PVC屏蔽线 Shielded wire
		UP	Shielded PUR
⑫	引线长度 Lead length	无 None	M型接插件本体连接 M connector body connection
		L1-L5	L1表示1米线 (线长不仅限L5) L1 means 1 meter line (line length is not limited to L5)

国际认证规格 International Certification Specifications

认证规格 Certification specifications	规格 Specifications	文件No. Document
CCC	GB/T 14048.10	请咨询昌得代表处 Please consult the CNTD Representative Office
TUV	EN 60947-5-2	
CE		

安全规格认证额定值 Safety Specification Certification Rating

CCC(GB/T 14048.10)、TUV(EN60947-5-2)

类型与额定值 Type and Rating
AC-140 24~250VAC 200mA
DC-13 10~30VDC 200mA

规格 Specifications

直流3线式 DC 3wire type

型号名 Model	CJY08S-02DNA CJY08S-02DNB CJY08S-02DPA CJY08S-02DPB	CJY08S-04DNA CJY08S-04DNB CJY08S-04DPA CJY08S-04DPB	CJY12S-04DNA CJY12S-04DNB CJY12S-04DNC CJY12S-04DPA CJY12S-04DPB CJY12S-04DPC	CJY12S-08DNA CJY12S-08DNB CJY12S-08DNC CJY12S-08DPA CJY12S-08DPB CJY12S-08DPC	CJY18S-10DNA CJY18S-10DNB CJY18S-10DNC CJY18S-10DPA CJY18S-10DPB CJY18S-10DPC	CJY18S-16DNA CJY18S-16DNB CJY18S-16DNC CJY18S-16DPA CJY18S-16DPB CJY18S-16DPC	CJY30S-20DNA CJY30S-20DNB CJY30S-20DNC CJY30S-20DPA CJY30S-20DPB CJY30S-20DPC	CJY30S-25DNA CJY30S-25DNB CJY30S-25DNC CJY30S-25DPA CJY30S-25DPB CJY30S-25DPC
检测距离 Sensing distance	2mm	4mm	4mm	8mm	10mm	16mm	20mm	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	0~1.05mm	0~2.1mm	0~2.8mm	0~4.9mm	0~7mm	0~10.5mm	0~11.9mm	0~17.5mm
工作电压 Working voltage	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°C温度范围内+20°C时的检测距离的±10%以内 Max. ±10% for sensing distance at ambient temperature 20°C							
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°C(未结冰状态 No icing)							
储存温度 Storage temperature	-30~+80°C(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							

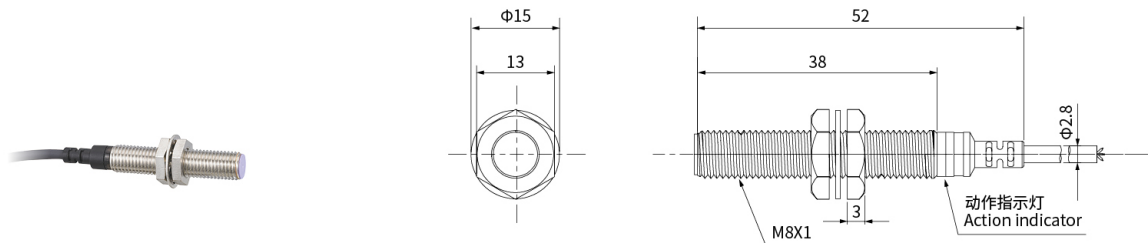
材质 Material	外壳/螺母: 镀镍黄铜, 垫片: 镍镀铁, 检测面: PBT, 一般线缆(灰色): 聚氯乙烯(PVC), 耐油性线缆(黑色): 聚氯乙烯(耐油强化型PVC) Case/Nut: Nickel plated Brass, Washer: Nickel plated Iron, Sensing surface: PBT, Standard cable(Gray): Polyvinyl chloride(PVC), Oil resistant cable(Black): Oil resistant Polyvinyl chloride(PVC)		
连接线缆 Cable	φ2.8, 3P, 2m (AWG22, 芯线直径:0.1mm, 芯线数:22, 绝缘皮外径: φ1.25mm) (AWG22, Core diameter: 0.1mm, Number of cores: 22, Insulator diameter: φ1.25)	φ3.8, 3P,4P 2m (AWG22, 芯线直径:0.1mm, 芯线数:25, 绝缘皮外径: φ1.25mm) (AWG22, Core diameter: 0.1mm, Number of cores: 25, Insulator diameter: φ1.25)	φ4.8, 3P,4P 2m (AWG22, 芯线直径:0.1mm, 芯线数:30, 绝缘皮外径: φ1.25mm) (AWG22, Core diameter: 0.1mm, Number of cores: 30, Insulator diameter: φ1.25)
	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

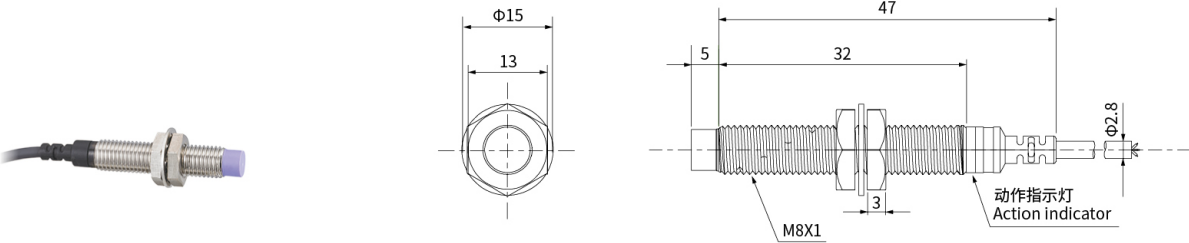
CJY08S-02

埋入式
Embedded type



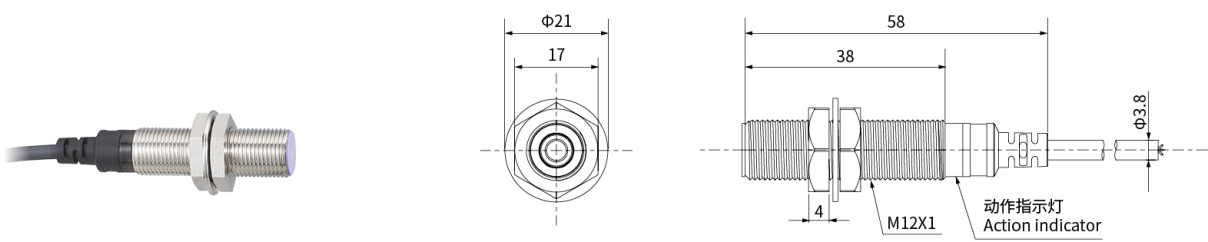
CJY08S-04

非埋入式
Non-embedded



CJY12S-04

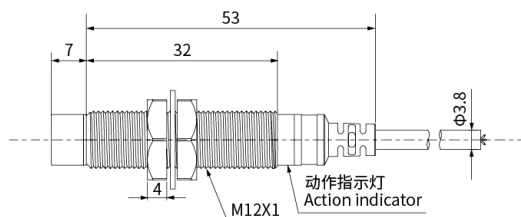
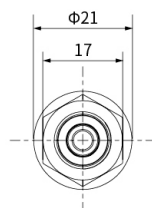
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外观和尺寸 Appearance and Dimension

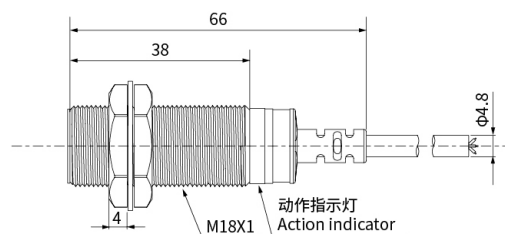
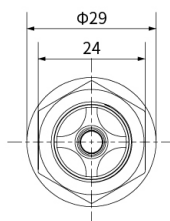
CJY12S-08

非埋入式
Non-embedded



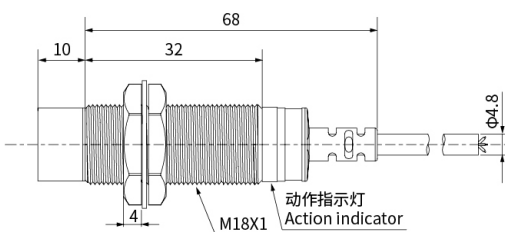
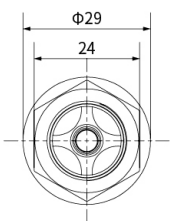
CJY18S-10

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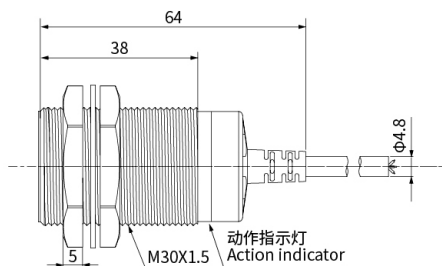
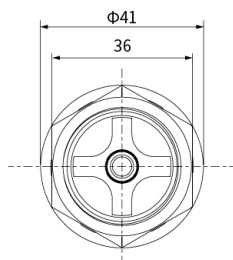
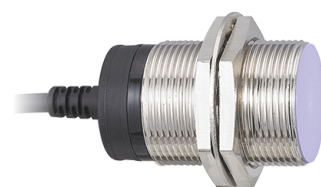
CJY18S-16

非埋入式
Non-embedded



CJY30S-20

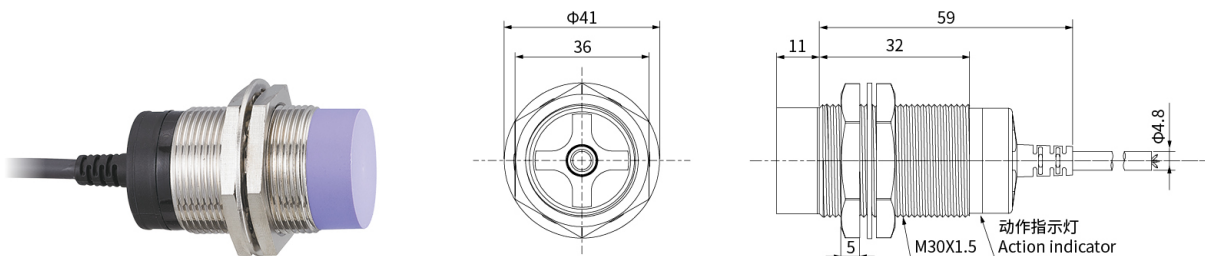
埋入式
Embedded type



外观和尺寸 Appearance and Dimension

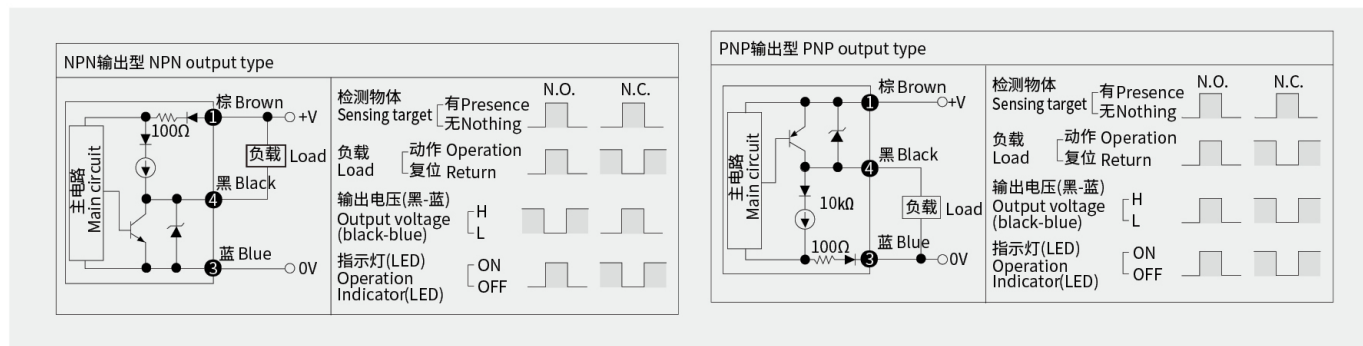
CJY30S-25

非埋入式
Non-embedded



输出电路 Control Output Diagram

直流3线式 DC 3-wire type

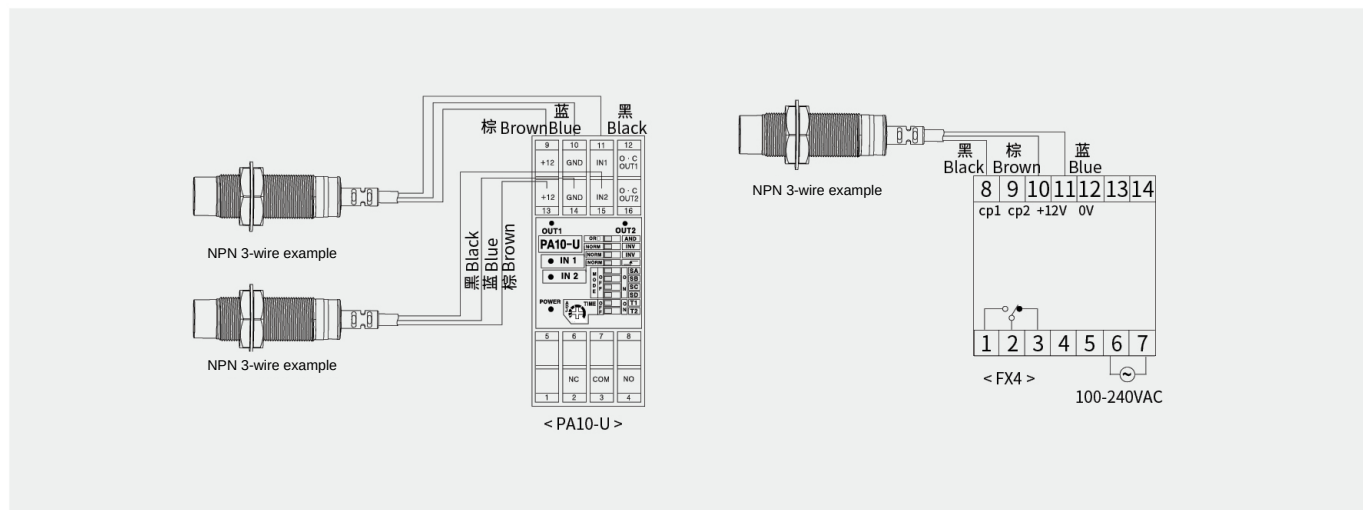


※ 圈里面的数字是表示插头(pin)的编号

※ The number in a circle is pin no. of connector.

输出电路 Control Output Diagram

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)。

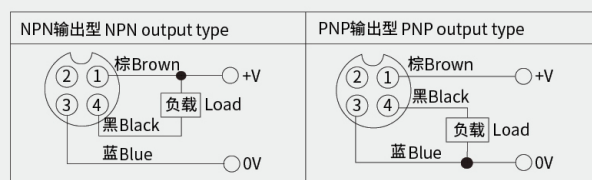
※ 在发生震动的地方请用胶带缠住连接线缆后使用。

※ 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.

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

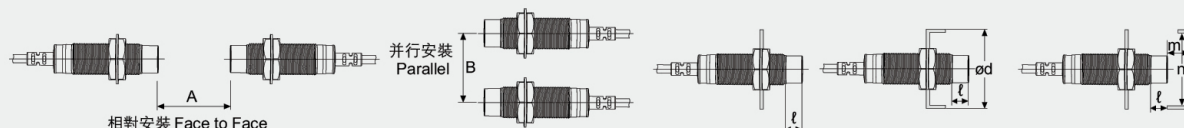
当把两个以上的接近开关一起安装使用时，可能会发生相互干扰引起的误动作，在安装时请务必满足下表中所规定的尺寸要求进行安装。

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.

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.



项目Item \ 型号名Model	CJY08S-02	CJY08S-04	CJY12S-04	CJY12S-08	CJY18S-10	CJY18S-16	CJY30S-20	CJY30S-25
A	9	12	24	48	42	84	90	150
B	16	24	24	36	36	54	60	90
n	0	8	0	11	0	14	0	15
ϕd	8	24	12	36	18	54	30	90
ℓ	4.5	6	12	24	21	42	45	75
m	12	24	18	36	27	54	45	90

使用注意事项 Using Precautions

本公司产品是作为工业产品而设计生产，严格遵守工业产品标准。我司明确声明，除非经过特殊设计并得到我司明确书面确认，我司产品不适用于以下应用场合：

- 要求极高可靠性的应用场合，包括核能、燃气、电力等要求长期稳定运行的系统。
- 要求极高安全性的应用场合，涉及人身安全与财产的情况。
- 苛刻条件、严酷环境的应用场合，包括室外、存在化学污染、电磁、振动或冲击影响的环境。
- 有火灾或爆炸风险的应用场合，包括存在易燃易爆性气体、强酸强碱化学品等物质的环境。
- 涉及军工用途、航天航空项目的应用场合。

The company's products are designed and produced as industrial products, in strict compliance with industrial product standards. We expressly declare that, unless specifically designed and expressly confirmed by us in writing, our products are not intended for the following applications:

- Applications that require high reliability, including nuclear, gas, electric and other systems that require long-term stable operation.
- Applications requiring very high security, situations involving personal safety and property.
- Applications in harsh conditions, harsh environments, including outdoor, chemical contamination, electromagnetic, vibration or shock effects.
- Applications where there is a risk of fire or explosion, including environments where flammable and explosive gases, strong acids and alkali chemicals are present.
- Applications involving military use and aerospace projects.