



- 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, enconomic price
 - Red LED status indication, easy to confirm work situation
 - Protection structure IP65(IEC standard)
 - Replaceable for limit switches



选型说明 Model Designation

CJ Y 12 S □ - 08 D N A / M

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

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
		YG	圆柱形不锈钢管 Cylindrical stainless steel tube
		YS	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、30=30mm
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
⑨	输出状态 Output state	A	NO
		B	NC
		C	NO+NC
⑩	连接形式 Connection form	M	M12针式 直头 4芯 A编码 M12 pin straight head 4-core A coding

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	CJY12S-04DNA/M CJY12S-04DNB/M CJY12S-04DNC/M CJY12S-04DPA/M CJY12S-04DPB/M CJY12S-04DPC/M	CJY12S-08DNA/M CJY12S-08DNB/M CJY12S-08DNC/M CJY12S-08DPA/M CJY12S-08DPB/M CJY12S-08DPC/M	CJY18S-10DNA/M CJY18S-10DNB/M CJY18S-10DNC/M CJY18S-10DPA/M CJY18S-10DPB/M CJY18S-10DPC/M	CJY18S-16DNA/M CJY18S-16DNB/M CJY18S-16DNC/M CJY18S-16DPA/M CJY18S-16DPB/M CJY18S-16DPC/M	CJY30S-20DNA/M CJY30S-20DNB/M CJY30S-20DNC/M CJY30S-20DPA/M CJY30S-20DPB/M CJY30S-20DPC/M	CJY30S-30DNA/M CJY30S-30DNB/M CJY30S-30DNC/M CJY30S-30DPA/M CJY30S-30DPB/M CJY30S-30DPC/M
检测距离 Sensing distance	4mm	8mm	10mm	16mm	20mm	30mm
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	0~4.9mm	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)	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 50/60Hz1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, 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					

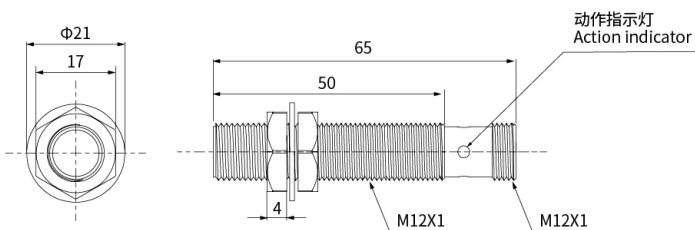
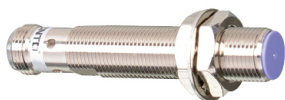
(※1) 开关动作的应答频率为平均值。测定条件使用标准检测物, 检测物的间距为标准检测物的2倍, 设定距离为检测距离的1/2。

(※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

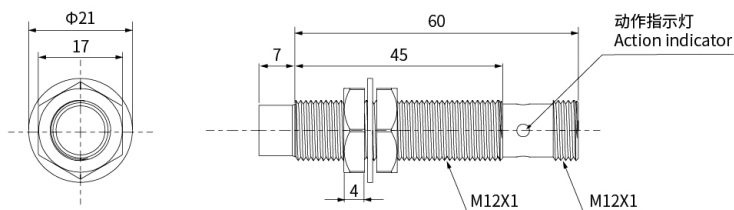
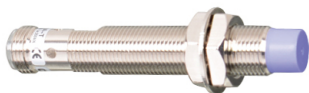
CJY12S-04/M

埋入式
Embedded type



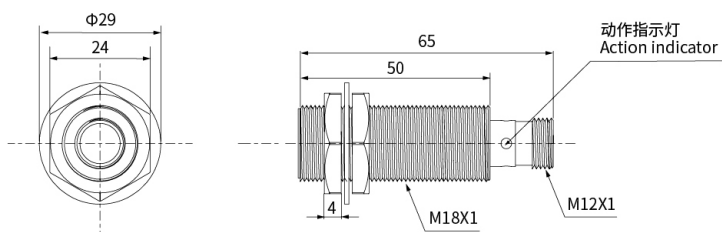
CJY12S-08/M

非埋入式
Non-embedded



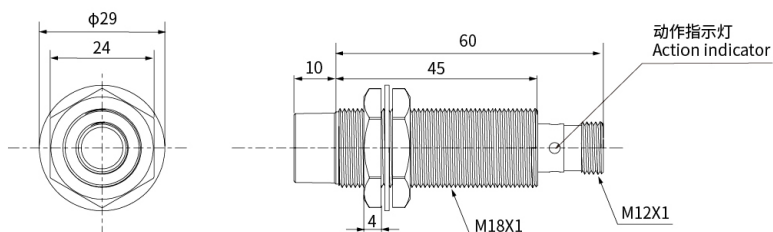
CJY18S-10/M

埋入式
Embedded type



CJY18S-16/M

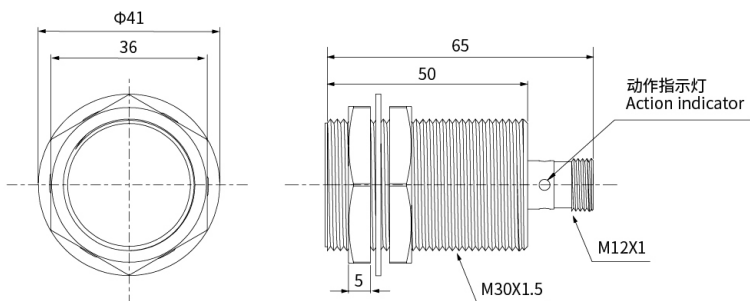
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外观和尺寸 Appearance and Dimension

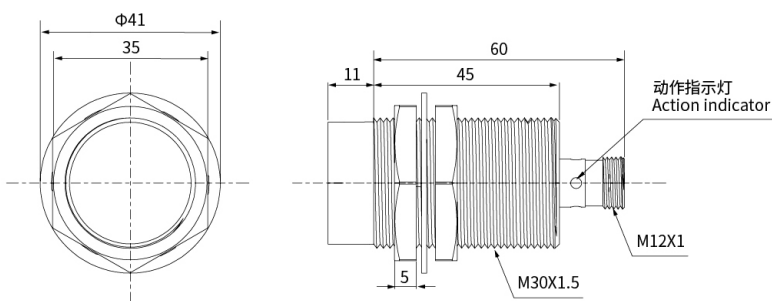
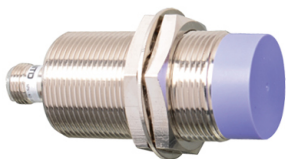
CJY30S-20/M

埋入式
Embedded type



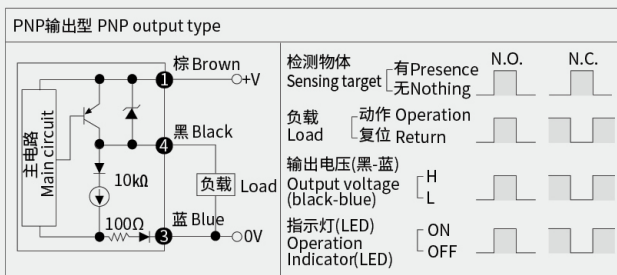
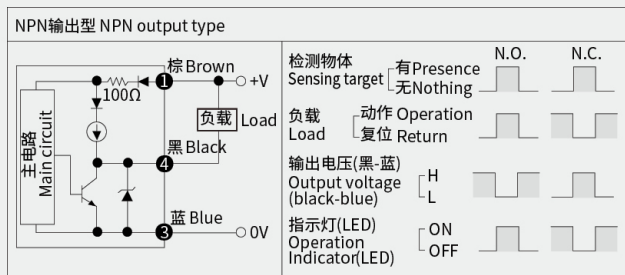
CJY30S-30/M

非埋入式
Non-embedded



输出电路 Control Output Diagram

直流3线式 DC 3-wire type

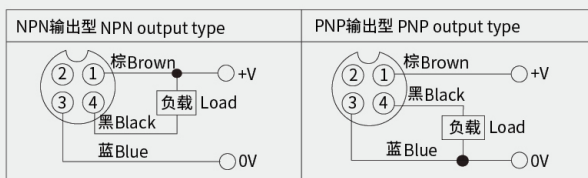


※ 圈里面的数字是表示插头(pin)的编号

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

连接器接线图 Wiring Diagram

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



※ 结合插头时, 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.

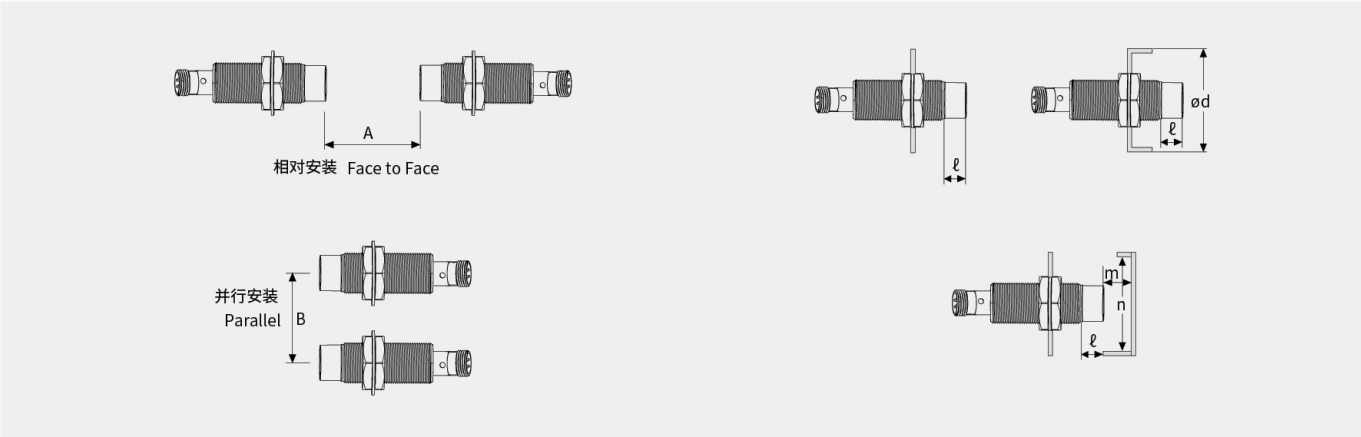
正确使用 Proper Usage

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.



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

使用注意事项 Using Precautions

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- 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。

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- 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.