



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)



选型说明 Model Designation

CJ F 40X □ - 20 D N A / □ □

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	F	方形 Quadrate
③	尺寸代码 Size code	40X	40X=□40 80=□80
④	产品类别 Product category	无 None	标准型 Normal form
⑤	检测距离 Detection distance	20	20=20mm、50=50mm
⑥	工作电压 Operating voltage	A	90...250VAC
		D	10...30VDC
		E	20...60VDC
		J	5...10VDC
⑦	输出方式 Output mode	N	NPN
		P	PNP
		K	AC 二线 2 Wire
		L	DC 二线 2 Wire
⑧	输出状态 Output state	A	NO
		B	NC
		C	NO+NC
⑨	连接形式 Connection form	无 None	No prewired cable
		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 connector D□□□□
		A□□□□	AMP型接插件 A□□□□ AMP connector A□□□□
		S□□□□	SM型接插件 S□□□□ SM Connector S□□□□
⑩	电线材质 Wire material	无 None	PVC
		U	PUR
		VP	PVC+屏蔽 Shield
		UP	Shielded PUR

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

型号名 Model	CJF40Y-20DLA CJF40Y-20DLB CJF40Y-20DNA CJF40Y-20DNB CJF40Y-20DPA CJF40Y-20DPB CJF40Y-20AKA CJF40Y-20AKB	CJF40X-20DLA CJF40X-20DLB CJF40X-20DNA CJF40X-20DNB CJF40X-20DPA CJF40X-20DPB CJF40X-20AKA CJF40X-20AKB	CJF80-50DLA CJF80-50DLB CJF80-50DNA CJF80-50DNB CJF80-50DPA CJF80-50DPB CJF80-50AKA CJF80-50AKB
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
工作电压 Working voltage	10-30VDC/90-250VAC		
漏电流 Leakage current	10mA以下 Max.10mA		
应答频率(※1) R esponse 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°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	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。

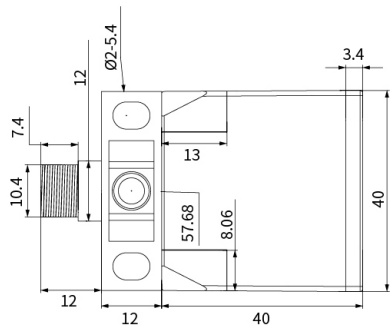
※ 标准产品和IEC标准的功能和规格是一样的。

(※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

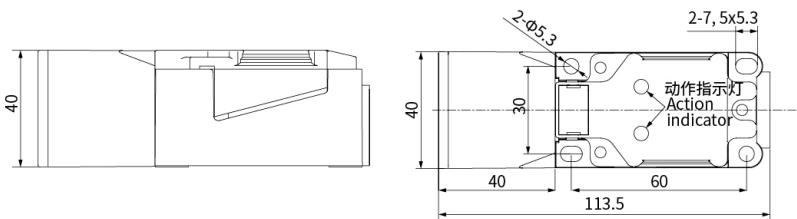
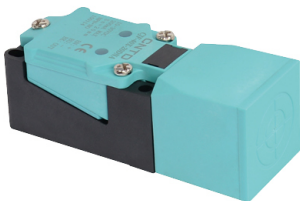
CJF40Y-20/M

长距离检测型接近开关
Long Distance Proximity
Sensor Flat Type



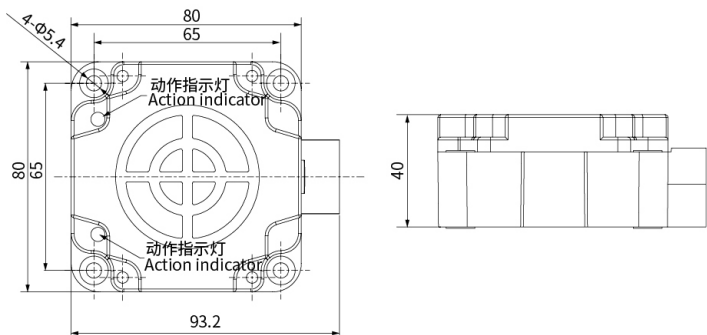
CJF40X-20

长距离检测型接近开关
Long Distance Proximity
Sensor Flat Type



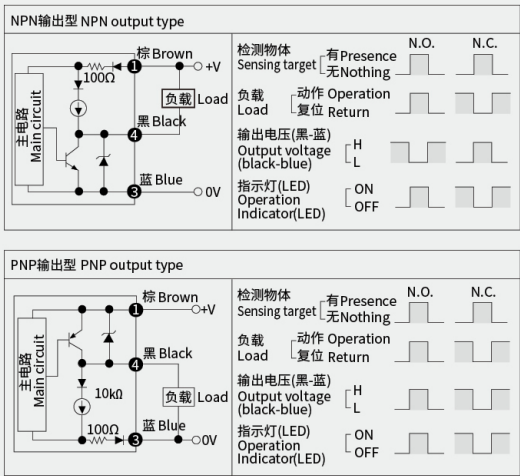
CJF80-50

长距离检测型接近开关
Long Distance Proximity
Sensor Flat Type

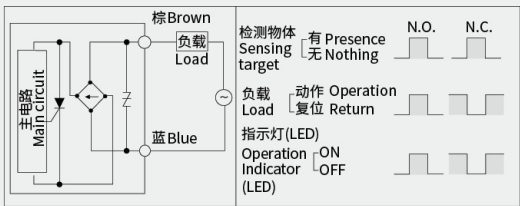


输出电路 Control Output Diagram

直流3线式 DC 3-wire type



交流2线式 AC 2-wire type



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.