



特点 Features

- 内置浪涌保护，电源反接保护
- 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
- 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



选型说明 Model Designation

CR Y 18 □ □ - 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	CR	电感式 Inductive type
②	外形代号 Shape code	Y	圆柱形塑料管 Cylindrical plastic pipe
		YM	圆柱形金属铜管 Cylindrical copper tube of metal
③	尺寸代码 Size code	12	12=M12、18=M18、30=M30
④	产品类型 Product type	无 None	标准型 Normal form
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	04	04=4mm、05=5mm、08=8mm、10=10mm、15=15mm
⑦	工作电压 Operating voltage	A	90...250VAC
		D	10...30VDC
⑧	输出方式 Output mode	N	NPN
		P	PNP
		K	AC 二线 2 Wires
⑨	输出状态 Output state	A	NO
		B	NC
		C	NO+NC

序号 No	项目 Item	代号 Code	说明 Description
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 Shield
		UP	PUC+屏蔽 Shield
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	Please consult the YLCN 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	CRY12-02DNA CRY12-02DNB CRY12-02DPA CRY12-02DPB	CRY12-04DNA CRY12-04DNB CRY12-04DPA CRY12-04DPB	CRY18-05DNA CRY18-05DNB CRY18-05DNC CRY18-05DPA CRY18-05DPB CRY18-05DPC	CRY18-08DNA CRY18-08DNB CRY18-08DNC CRY18-08DPA CRY18-08DPB CRY18-08DPC	CRY30-10DNA CRY30-10DNB CRY30-10DNC CRY30-10DPA CRY30-10DPB CRY30-10DPC	CRY30-15DNA CRY30-15DNB CRY30-15DNC CRY30-15DPA CRY30-15DPB CRY30-15DPC
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
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)	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°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					

规格 Specifications

型号名 Model	CRY12-02DNA	CRY12-04DNA	CRY18-05DNA	CRY18-08DNA	CRY30-10DNA	CRY30-15DNA
	CRY12-02DNB	CRY12-04DNB	CRY18-05DNB	CRY18-08DNB	CRY30-10DNB	CRY30-15DNB
	CRY12-02DNC	CRY12-04DNC	CRY18-05DNC	CRY18-08DNC	CRY30-10DNC	CRY30-15DNC
	CRY12-02DPA	CRY12-04DPA	CRY18-05DPA	CRY18-08DPA	CRY30-10DPA	CRY30-15DPA
	CRY12-02DPB	CRY12-04DPB	CRY18-05DPB	CRY18-08DPB	CRY30-10DPB	CRY30-15DPB
			CRY18-05DPC	CRY18-08DPC	CRY30-10DPC	CRY30-15DPC
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~+60°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	φ3.8, 3P, 2m		φ4.8, 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		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	IP65					

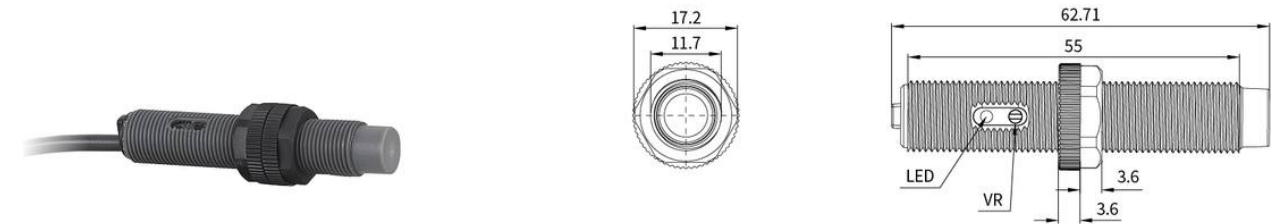
交流2线式 AC 2wire type

型号名 Model	CRY12-08AKA CRY12-08AKB	CRY18-08AKA CRY18-08AKB	CRY30-10AKA CRY30-10AKB	CRY30-15AKA CRY30-15AKB
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
工作电压 Working voltage	90-250VAC			
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	10V以下 Max. 10V			
温度的影响 Affection by Temp	在-25~+60°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)			

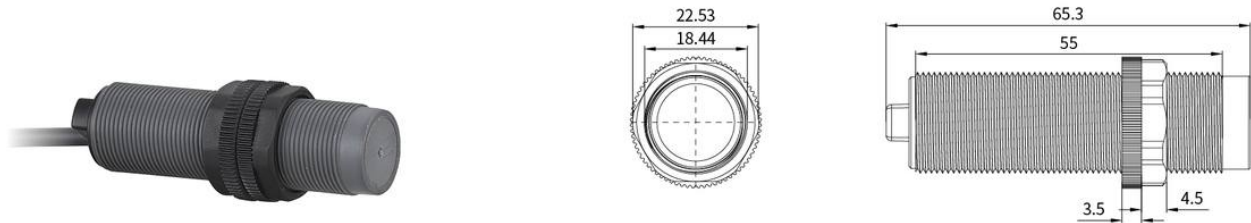
使用周围温度 Ambient temperature	-25~+60°C(未结冰状态 No icing)
储存温度 Storage temperature	-30~+80°C(未结冰状态 No icing)
使用周围湿度 Ambient humidity	35~95%RH (未结露状态 No condensation)
保护电路 Protection circuit	浪涌保护电路 Surge protection circuit,
材质 Material	外壳/螺母: ABS, 检测面: PBT, 一般线缆(灰色): 聚氯乙烯(PVC), 耐油性线缆(黑色): 聚氯乙烯(耐油强化型PVC) Case/Nut: ABS, Sensing surface: PBT, Standard cable(Gray): Polyvinyl chloride(PVC), Oil resistant cable(Black): Oil resistant Polyvinyl chloride(PVC)
连接线缆 Cable	φ4.8, 2P, 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	IP65

外观和尺寸 Appearance and Dimension

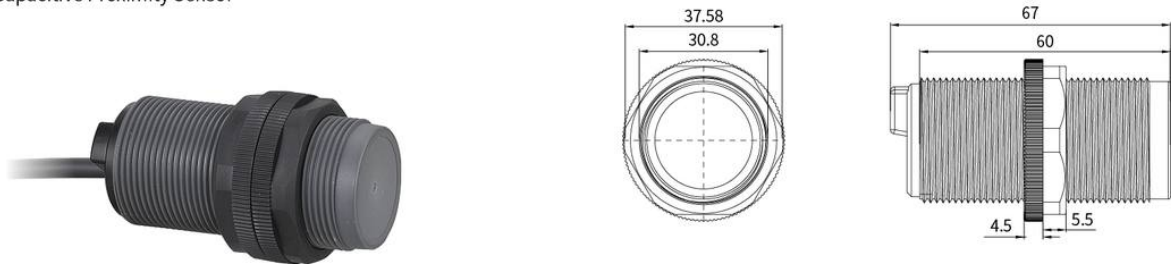
CRY12-04
电容式接近开关
Capacitive Proximity Sensor



CRY18-08
电容式接近开关
Capacitive Proximity Sensor



CRY30-10
电容式接近开关
Capacitive Proximity Sensor



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.