



- 特点 Features
- 内置浪涌保护，电源反接保护电路
 - 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)
 - Inside surge protection, reverse polarity 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)



选型说明 Model Designation

CA Y 12 □ □ - 10 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	CA	霍尔式 Hall type
②	外形代号 Shape code	Y	圆柱形金属铜管 Cylindrical copper tube of metal
		F	方形 Quadrate
③	尺寸代码 Size code	12	08=M8、12=M12、18=M18
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	10	10=10mm
⑦	工作电压 Operating voltage	D	10...30VDC
⑧	输出方式 Output mode	N	NPN
		P	PNP
⑨	输出状态 Output state	A	NO
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	Shielded PUR cable
⑫	引线长度 Lead length	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

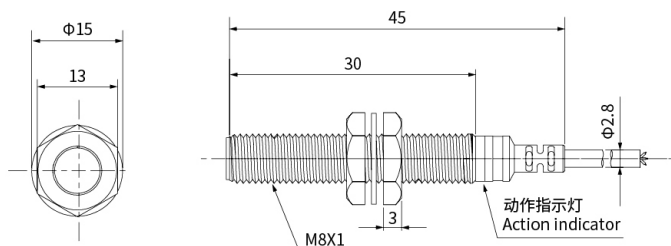
规格 Specifications

型号名 Model	CAY08-10DNA CAY08-10DPA	CAY12-10DNA CAY12-10DPA	CAY18-10DNA CAY18-10DPA
检测距离 Sensing distance	10mm	10mm	10mm
应差距离 Hysteresis	3-20%		
消耗电流 Consumption current	10mA以下		
工作电压 Working voltage	10-30VDC		
响应频率 Response frequency	1000Hz		
残留电压 Residual voltage	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	-15~+55°C(未结冰状态 No icing)		
储存温度 Storage temperature	-15~+55°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: 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	φ3.8, 3P, 4P 2m	φ4.8, 3P, 4P 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)	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	IP67		

外观和尺寸 Appearance and Dimension

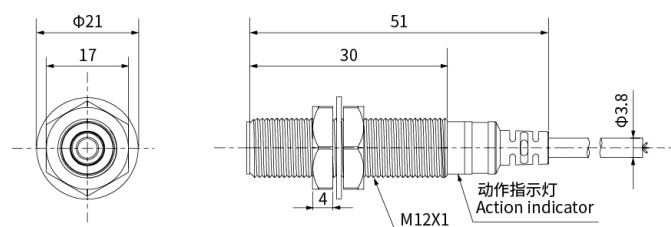
CAY08-10

霍尔开关
Hall Sensor



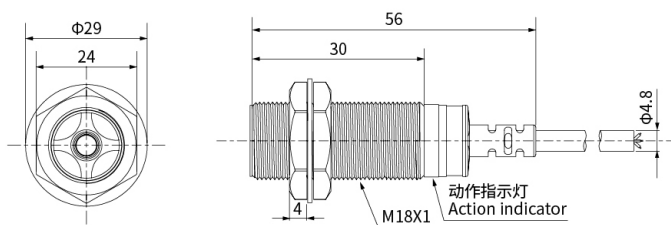
CAY12-10

霍尔开关
Hall Sensor



CAY18-10

霍尔开关
Hall 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.