



特点 Features

- 采用专用IC提高抗干扰能力
- 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
- IP65防护等级(IEC规格)
- Exclusively designed IC for improving anti-jamming capability
- 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 IP65(IEC standard)



选型说明 Model Designation

CG U 07 □ - 07 D N A / □ □ □ □ - L2

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬

序号 No	项目 Item	代号 Code	说明 Description
①	分类代号 Classification code	CG	光电式 Photoelectric type
②	外形代号 Product size	U	槽形 Groove shape
③	尺寸代码 Size code	07	07=凹槽宽度7mm、10=凹槽宽度10mm、30=凹槽宽度30mm、50=凹槽宽度50mm 07= groove width 7mm, 10= groove width 10mm, 30= groove width 30mm, 50= groove width 50mm
④	产品类别 Product category	无 None	标准型 Standard type
⑤	检测距离 Detection distance	07	07=7mm、10=10mm、30=30mm、50=50mm
⑥	工作电压 Operating voltage	D	10...30VDC
		E	20...60VDC
		J	5...10VDC
⑦	输出方式 Output mode	N	NPN
		P	PNP
⑧	输出状态 Output state	A	NO
		B	NC
⑨	光源颜色 Light source color	无 None	红外 Infrared
		R	红色光源 Red light source
		G	绿色光源 Green light source
		B	蓝色光源 Blue light source
		W	白色光源 White light source
⑩	光源类型 Light source type	无 None	LED
⑪	连接形式 Connection	无 None	引线式自由出线端 Lead type free outlet end
		M□□□□	M型接插件 M □□□□ M-type connector M□□□□
		D□□□□	DT型接插件 D □□□□ Type DT connector D□□□□
		A□□□□	AMP型接插件 A □□□□ AMP type connector A□□□□
		S□□□□	SM型接插件 S □□□□ SM connector S□□□□

⑫	电线材质 Wire material	无 None	PVC
		U	PUR
		VP	PVC+屏蔽 shielding
		UP	Shielded PUR
⑬	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/T14048.10	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

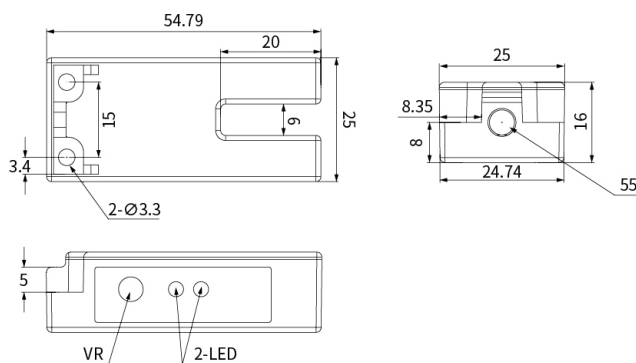
对射型 Through-bethod type

型号名 Model	CGU07-07DNA CGU07-07DNB CGU07-07DNC CGU07-07DPA CGU07-07DPB CGU07-07DPC	CGU10-10DNA CGU10-10DNB CGU10-10DPA CGU10-10DPB	CGU30-30DNA CGU30-30DNB CGU30-30DNC CGU30-30DPA CGU30-30DPB CGU30-30DPC	CGU50-50DNA CGU50-50DNB CGU50-50DNC CGU50-50DPA CGU50-50DPB CGU50-50DPC
检测距离 Sensing distance	7mm	10mm	30mm	50mm
光源 Light source	红外LED (调制) Infrared LED (Modulation)			
消耗电流 Consumption current	15mA以下			
工作电压 Working voltage	10-30VDC			
响应时间 Response time	< 1ms			
残留电压 Residual voltage	1V以下 Max. 1V			
温度的影响 Affection by Temp	在-25~+55℃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	-15~+55℃(未结冰状态 No icing)			
储存温度 Storage temperature	-15~+55℃(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: ABS, 检测面: PMMA, 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: ABS, Sensing surface: PMMA, Standard cable(Gray): Polyvinyl chloride(PVC), Oil resistant cable(Black): Oil resistant Polyvinyl chloride(PVC)			
连接线缆 Cable	φ4.8, 3P,4P 2m	φ3.8, 3P, 2m	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	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			

外观和尺寸 Appearance and Dimension

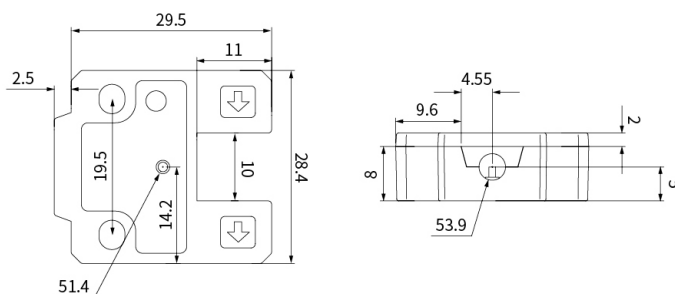
CGU07-07

槽形光电开关
Groove Shape Photoelectric Switch



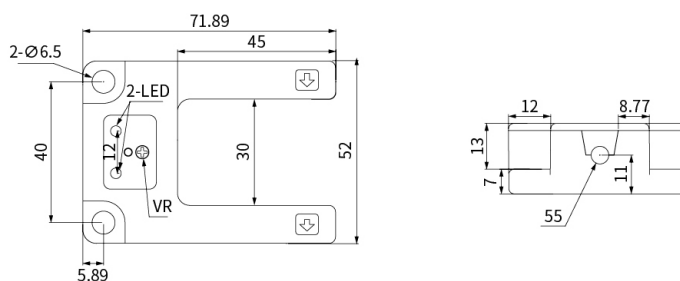
CGU10-10

槽形光电开关
Groove Shape Photoelectric Switch



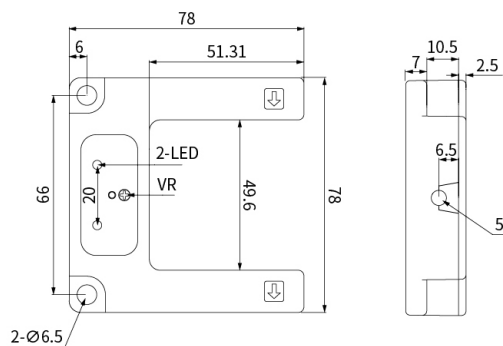
CGU30-30

槽形光电开关
Groove Shape Photoelectric Switch



CGU50-50

槽形光电开关
Groove Shape Photoelectric Switch



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.