

Product Description:

- Compact body, to meet the needs of electronics, photovoltaic, semiconductor and other industries for compact space.
- the product has excellent black and white detection characteristics, can stably detect different colors of the measured objects.

Product features:

- The principle of triangular distance measurement is high detection accuracy
- Ø3 mounting hole, built-in metal parts, strong, long life
- Multiple output types



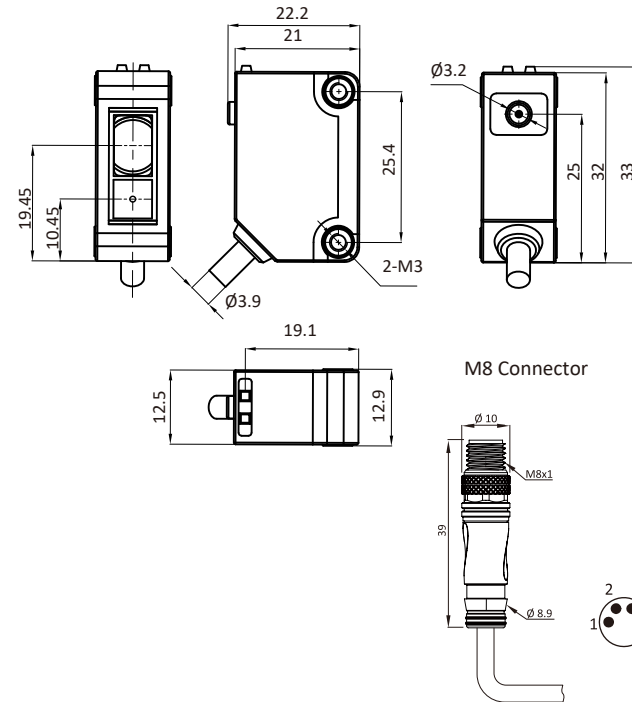
Type	Distance	light source	Switching frequency	Output	Resolution	Connection	Wiring
OS10U-KL300CB6-*-Q8 ¹⁾	30...300mm	Red Laser	500Hz	push-pull	0.1mm	*m pigtail + M8 Connector	Fig.1

Note 1): * refers to the pigtail cable length in meters. Example:0.3 represents 0.3 meters pigtail.

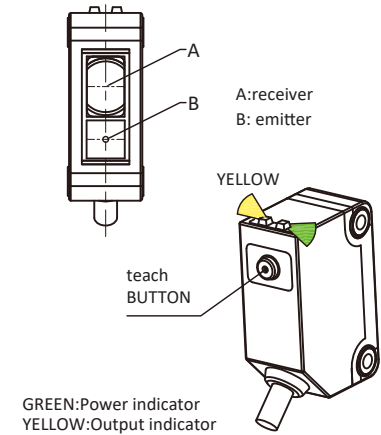
TECHNICAL SPECIFICATION

OPERATING VOLTAGE	10...30 V DC	AMBIENT TEMPERATURE OPERATION	-10°C ... +50°C
LIGHT SOURCE TYPE	655nm laser Class 1	AMBIENT TEMPERATURE STORAGE	-25°C ... +75°C
SWITCHING MODE	Light and dark on can be switched	CIRCUIT PROTECTION	Short-circuit protection, reverse polarity protection, over-load protection
DISTANCE CONTROL	Key teaching	PROTECTION DEGREE	IP67
LOAD CURRENT	≤100mA	HOUSING MATERIAL	PBT+PC
MEASUREMENT ACCURACY	30mm-100mm (Repeatability 2mm) 100mm-300mm (Repeat accuracy 5mm)	CONNECTING TYPE	*m pigtail + M8 Connector,4pin
SPOT SIZE	1.2*1mm@100mm 0.8*1mm@250mm 1*1.2mm@300mm	SWITCHING HYSTERESIS	2mm < 100mm 5mm 100mm - 170mm 8mm 170mm - 250mm 20mm > 250mm

DIMENSIONS



INDICATORS/OPERATING MEANS



GREEN:Power indicator
YELLOW:Output indicator

ELECTRICAL CONNECTION

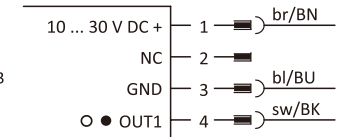
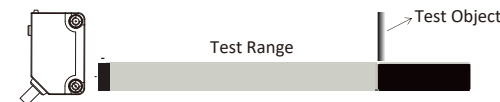


Fig.1
○ = Light on
● = Dark on

OS10U SERIES PRODUCT INSTRUCTIONS:

1. Single point mode setting: Long press the button for more than 3 seconds, the green light flashes for 3 seconds below 7 seconds, the setting is successful;Flashing yellow and green,Setting failed.
2. Window mode setting: Short press (above 200ms, below 2s) the key twice, the first time to set the first point, the second time to set the second point,If the green light blinks three times, the setting is successful.If the yellow and green blinks alternately, the setting fails. When setting the second point, the operation should be completed within 10s.Otherwise, the yellow light blinks five times, and the system automatically exits.
- 3.Light and dark pass setting: press and hold the button for more than 7s until the yellow indicator blinks and the green indicator indicates the light and dark pass state. Press and press Key can switch the status, long press 3s or more to exit the setting.
- 4.The product cannot be used with ordinary transparent glass or acrylic sheets.And the product will be sensitive to the above objects.
5. Recommended installation Angle within ±15°

SINGLE POINT MODE



WINDOW MODE



产品说明:

- 小巧机身，满足电子、光伏、半导体等行业对紧凑空间的需求
- 产品具有优良的黑白检测特性，可稳定检测不同颜色被测物。

产品特点:

- 三角测距原理高检测精度
- $\Phi 3$ 安装孔，内置金属件，坚固、长寿命
- 多种输出类型



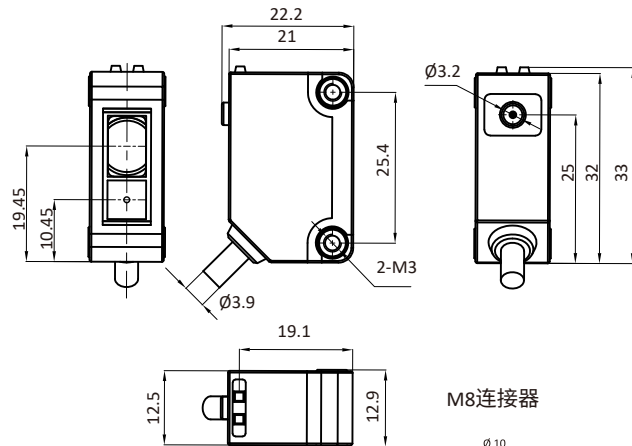
型号	检测距离	光源	开关频率	输出方式	分辨率	连接方式	接线图
OS10U-KL300CB6-*-Q8 ¹⁾	30...300mm	红色激光	500Hz	push-pull	0.1mm	*m pigtail + M8连接器	图1

注1): *表示猪尾巴长度, 单位米, 例如: *为0.3表示0.3米猪尾巴。

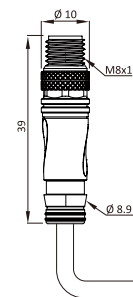
技术参数

工作电压	10...30 V DC	工作温度	-10°C ... +50°C
光源类型	655nm 1级激光	环境温度	-25°C ... +75°C
开关模式	亮暗通可切换	保护电路	短路保护 反极性保护 输出过载保护
距离调节	按键示教		
负载电流	≤100mA	防护等级	IP67
测量精度	30mm-100mm (重复精度 2mm) 100mm-300mm (重复精度 5mm)	外壳	PBT+PC
光斑尺寸	1.2*1mm@100mm 0.8*1mm@250mm 1*1.2mm@300mm	连接方式	*m pigtail + M8连接器, 4pin
		回差	2mm < 100mm 5mm 100mm - 170mm 8mm 170mm - 250mm 20mm > 250mm

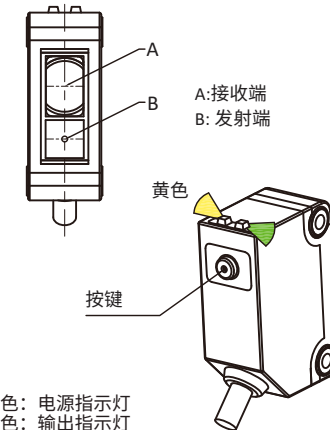
外形尺寸



M8连接器



操作指示



绿色: 电源指示灯
黄色: 输出指示灯

接线图

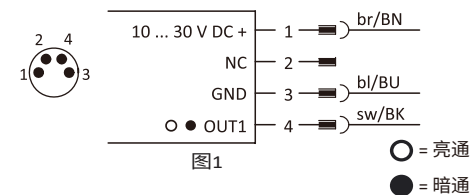


图1

○ = 亮通
● = 暗通

OS10U系列产品使用说明

1. 单点模式设置: 长按按键3秒以上, 7秒以下 绿灯闪烁3秒, 设置成功; 黄灯绿灯交替闪烁, 设置失败。
2. 窗口模式设置: 短按 (200ms以上, 2s以下) 按键2次, 第一次设置第1点, 第二次设置第2点, 绿灯闪烁3次, 设置成功; 黄灯绿灯交替闪烁, 设置失败。设置第2点时需在10s内完成操作, 否则黄灯闪烁5次, 自动退出。
3. 亮暗通设置: 长按按键7s以上, 直到黄色指示灯闪烁, 绿色指示灯指示亮暗通状态, 短按按键可切换状态, 长按3s以上退出设定。
4. 视窗表面不可有脏污, 需清洁干净, 否则影响产品性能。
5. 建议产品安装角度在 $\pm 15^\circ$ 以内

单点模式:



窗口模式:

