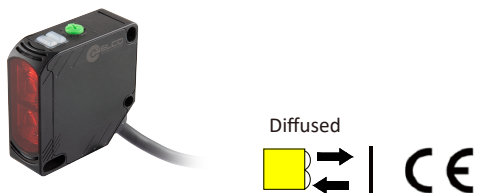


## Product Description:

- Square size of 50\*50, wide voltage supply, relay output.
- Suitable for garage, warehousing, logistics, crane collision and other applications.

## Product features:

- Multiple output modes
- Long detection distance
- Flexible installation method



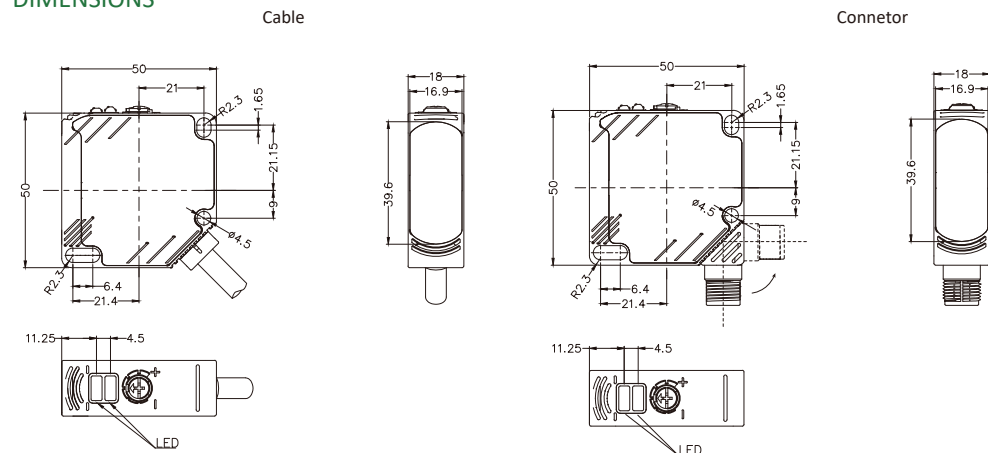
| Type                          | Distance | Beam | Output | Connection    | Wiring |
|-------------------------------|----------|------|--------|---------------|--------|
| OS50-K1000VP6*M <sup>1)</sup> | 1000mm   | Red  | PNP    | Cable         | Fig.1  |
| OS50-K1000VP6Q                | 1000mm   | Red  | PNP    | M12 Connector | Fig.2  |
| OS50-K1000VN6*M <sup>1)</sup> | 1000mm   | Red  | NPN    | Cable         | Fig.3  |
| OS50-K1000VN6Q                | 1000mm   | Red  | NPN    | M12 Connector | Fig.4  |
| OS50-K1000VR5*M <sup>1)</sup> | 1000mm   | Red  | Relay  | Cable         | Fig.5  |

Note 1): \* M refers to the cable length in meters. If there is no \* M in the model, the default cable length is 2 meters.

## TECHNICAL SPECIFICATION

|                                  |                                                    |                                      |                                                                             |
|----------------------------------|----------------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------|
| <b>OPERATING VOLTAGE</b>         | 10...30 V DC (NPN/PNP)<br>24...240 V DC/AC (Relay) | <b>AMBIENT TEMPERATURE OPERATION</b> | -25°C...+55°C                                                               |
| <b>LIGHT SOURCE TYPE</b>         | Red LED                                            | <b>AMBIENT TEMPERATURE STORAGE</b>   | -40°C...+70°C                                                               |
| <b>RIPPLE VOLTAGE</b>            | ±10% of U <sub>B</sub>                             | <b>CIRCUIT PROTECTION</b>            | Short-circuit protection, reverse polarity protection, over-load protection |
| <b>OUTPUT CHARACTERISTIC</b>     | PNP/NPN/Relay                                      | <b>PROTECTION DEGREE</b>             | IP67                                                                        |
| <b>LOAD CURRENT</b>              | ≤200mA (NPN/PNP)<br>≤3A (Relay)                    | <b>HOUSING MATERIAL</b>              | PBT+ABS                                                                     |
| <b>SWITCHING FREQUENCY</b>       | 800Hz (NPN/PNP)<br>50Hz (Relay)                    | <b>CONNECTING TYPE</b>               | *m PVC cable<br>/M12 connector                                              |
| <b>ADJUSTMENT OF SENSITIVITY</b> | Knob adjustment                                    |                                      |                                                                             |

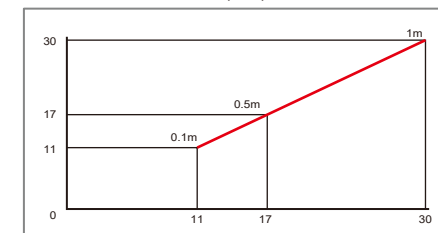
## DIMENSIONS



## INDICATORS

|                             |        |
|-----------------------------|--------|
| Sensitivity adjustment knob |        |
| Steady state indicator      | Green  |
| Output indicator            | Yellow |

OS50-K1000 Spot pattern (mm)



## ELECTRICAL CONNECTION

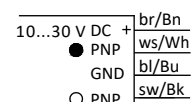


Fig.1

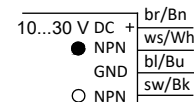


Fig.3

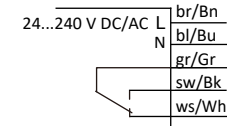


Fig.5

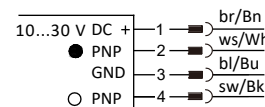


Fig.2

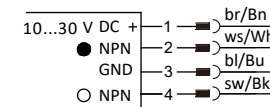
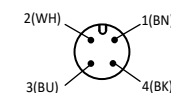


Fig.4



○ = Light on  
● = Dark on

## 产品说明:

- 方形50\*50尺寸, 宽电压供电, 继电器输出。
- 适用车库, 仓储, 物流, 天车防撞等应用。

## 产品特点:

- 多种输出模式
- 长检测距离
- 灵活的安装方式



漫反式



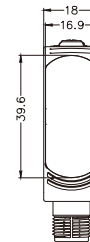
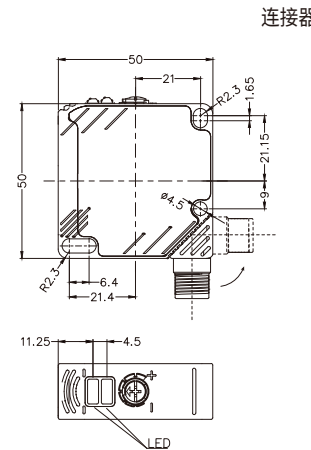
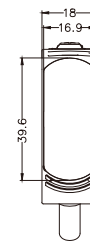
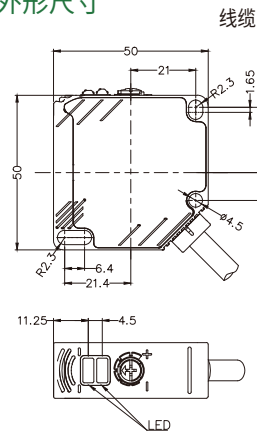
| 型号                             | 检测距离   | 光源 | 输出方式 | 连接方式    | 接线图 |
|--------------------------------|--------|----|------|---------|-----|
| OS50-K1000VP6 *M <sup>1)</sup> | 1000mm | 红光 | PNP  | 线缆      | 图1  |
| OS50-K1000VP6Q                 | 1000mm | 红光 | PNP  | M12 连接器 | 图2  |
| OS50-K1000VN6 *M <sup>1)</sup> | 1000mm | 红光 | NPN  | 线缆      | 图3  |
| OS50-K1000VN6Q                 | 1000mm | 红光 | NPN  | M12 连接器 | 图4  |
| OS50-K1000VR5 *M <sup>1)</sup> | 1000mm | 红光 | 继电器  | 线缆      | 图5  |

注1): \*M表示线缆长度, 单位米, 型号中无\*M默认线缆长度为2米。

## 技术参数

|       |                                                |      |                         |
|-------|------------------------------------------------|------|-------------------------|
| 工作电压  | 10...30 V DC(NPN/PNP)<br>24...240 V DC/AC(继电器) | 工作温度 | -25°C...+55°C           |
| 光源    | 红光                                             | 环境温度 | -40°C...+70°C           |
| 纹波电压  | ±10% of U <sub>s</sub>                         | 保护电路 | 短路保护<br>反极性保护<br>输出过载保护 |
| 输出特性  | NPN/PNP/继电器                                    | 防护等级 | IP67                    |
| 负载电流  | ≤200mA(NPN/PNP)<br>≤3A(继电器)                    | 外壳   | ABS+PBT                 |
| 开关频率  | 800Hz(NPN/PNP)<br>50Hz(继电器)                    | 连接方式 | *m PVC线缆<br>/M12连接器     |
| 灵敏度调节 | 旋钮调节                                           |      |                         |

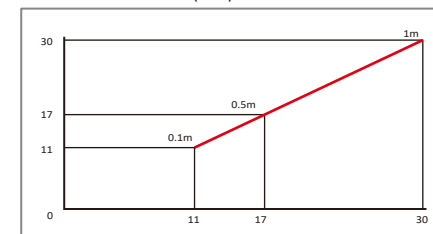
## 外形尺寸



## 操作指示

|       |    |
|-------|----|
| 灵敏度调节 |    |
| 稳态指示灯 | 绿色 |
| 输出指示灯 | 黄色 |

OS50-K1000 光斑图(mm)



## 接线图

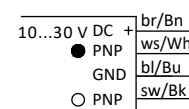


图1

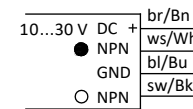


图3

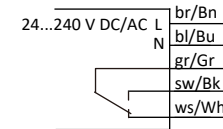


图5

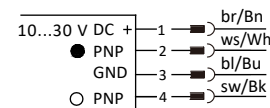


图2

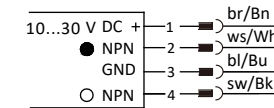
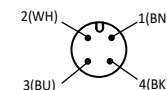


图4

○ =亮通  
● =暗通