

# Miniature photoelectric sensor PST series



## Feature description

- M3 threaded cylindrical installation, small size, easy to install and use
- With 360° visible bright LED status indicator
- Good anti-light interference, high product stability
- Small spot, stable detection of small objects
- Good background suppression and color sensitivity, stable detection of black objects



## Model specification

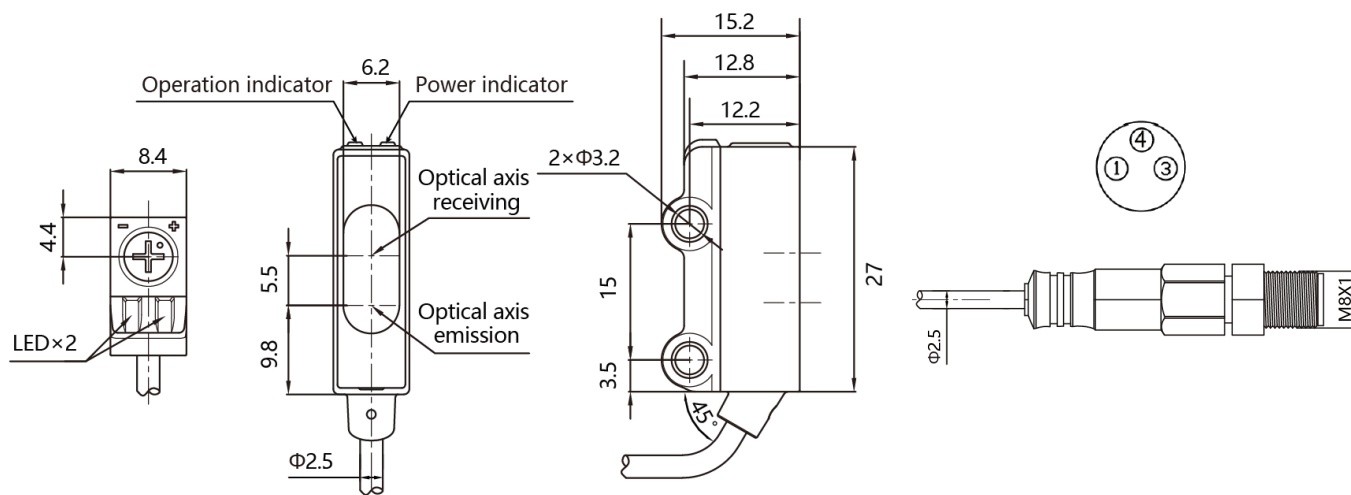
|        |                 |        |                 |
|--------|-----------------|--------|-----------------|
| NPN NO | PST-YR15DNOR-F3 | PNP NO | PST-YR15DPOR-F3 |
| NPN NC | PST-YR15DNCR-F3 | PNP NC | PST-YR15DPCR-F3 |

## Specifications

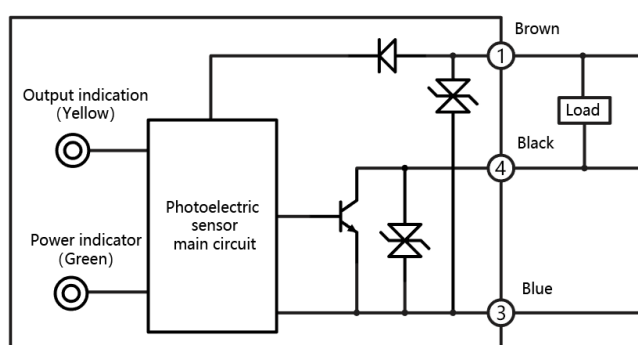
|                     |                                                |                              |                                            |
|---------------------|------------------------------------------------|------------------------------|--------------------------------------------|
| Detection distance  | 15mm                                           | Light source                 | Red light(680nm)                           |
| Detection of test   | 4...18mm                                       | Response time                | <1ms                                       |
| Dead zone           | <4mm                                           | Indicator                    | Green: Power Indicator                     |
| Standard target     | 100*100mm white card                           |                              | Yellow: Output indication                  |
| Smallest detector   | Φ1mm above opaque objects                      | Anti ambient light           | Sunshine interference≤10,000 lux;          |
| Distance adjustment | knob                                           |                              | Incandescent light interference ≤3,000 lux |
| Light spot size     | 3mm@100mm                                      | Operating temperature        | -20...55 °C                                |
| Color sensitivity   | 85%                                            | Storage temperature          | -30...70 °C                                |
| Hysteresis          | <20%                                           | Protection degree            | IP67                                       |
| Supply voltage      | 10...30VDC                                     | In conformity with standards | CE                                         |
| Consumption current | ≤15mA                                          | Housing material             | ABS                                        |
| Load current        | ≤50mA                                          | Lens                         | PMMA                                       |
| Voltage drop        | ≤1.5V                                          | Connection                   | 20cm PVC+M8 connector (3-pins)             |
| Circuit protection  | Short circuit protection, overload protection, | Accessories                  | M3 Screws(length16mm)、Nut×2、               |
|                     | reverse polarity protection                    |                              | Operation manual                           |

Remark: This is data measuring from 100mm\*100mm 90% white card.

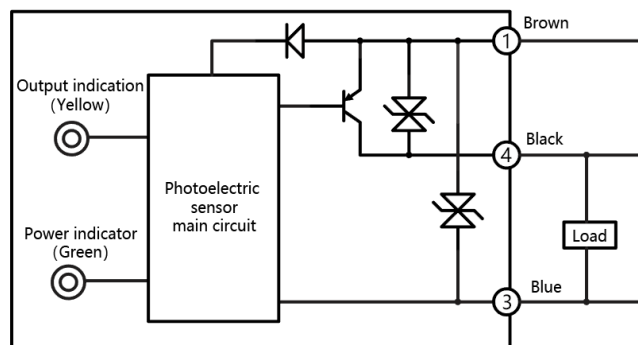
## Dimensions



## Wiring diagram



NPN



PNP