# Plastic square shape photoelectric sensors **PSC** series



## Features

- ◆ Diffuse reflection working principle;
- ◆Excellent anti-interference performance
- ◆High detection accuracy

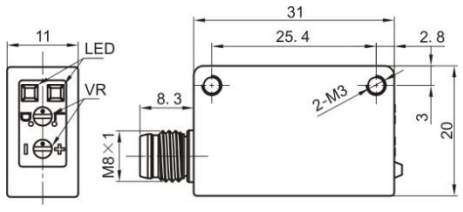
## Part number

| | | | |
|---|---|---|---|
| NPN | NO/NC | PSC-BC30TNBR-E1 | PSC-BC100TNB-E1 |
| PNP | NO/NC | PSC-BC30TPBR-E1 | PSC-BC100TPB-E1 |

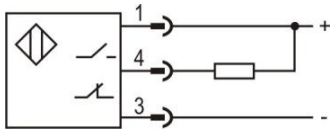
## Technical specifications

| | | | |
|---|---|---|---|
| Detection type | Diffuse reflection | Consumption current | ≤15mA |
| Rated distance [Sn] | 30cm(adjustable) 100cm (adjustable) | Circuit protection | Short-circuit, overload and reverse polarity |
| Standard target | White card reflection rate 90% | Response time | < 2ms |
| Light source | Red LED(650nm) Infrared LED (850nm) | Output indicator | Power: Green LED Output: Yellow LED |
| Dimensions | 31 mm *20 mm *11mm | Ambient temperature | -25℃…+55℃ |
| Output | NO/NC (select by L/D potentiometer) | Ambient humidity | 35-85%RH (non-condensing) |
| Supply voltage | 12…24 VDC | Voltage withstand | 1000V/AC 50/60Hz 60s |
| Target | Opaque object | Insulation resistance | ≥50MΩ(500VDC) |
| Hysteresis range [%/Sr] | 3…20% | Vibration resistance | 10…50Hz (0.5mm) |
| Repeat accuracy [R] | ⩽5% | Degree of protection | IP67 |
| Load current | ⩽100mA | Housing material | PC/ABS |
| Residual voltage | ⩽2.5V | Connection type | M8 Connector |

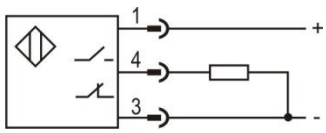
## Dimensions




## Wiring diagram




NPN NO/NC




PNP NO/NC

