

Plastic cylindrical shape photoelectric sensors **PR30S** series


Features

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



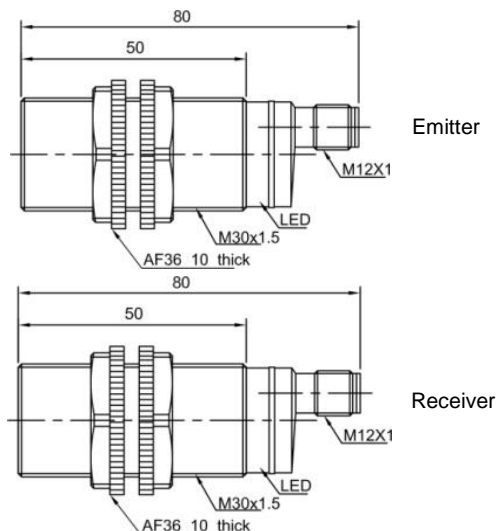
Part number

| | | Emitter | | Receiver | | | | Emitter | | Receiver | |
|-----|-------|----------------|----------------|------------------|------------------|-----|-------|----------------|----------------|------------------|------------------|
| NPN | NO | PR30S-TM20D-E2 | PR30S-TM20D-E2 | PR30S-TM20DNO-E2 | PR30S-TM20DNO-E2 | PNP | NO | PR30S-TM20D-E2 | PR30S-TM20D-E2 | PR30S-TM20DPO-E2 | PR30S-TM20DPO-E2 |
| NPN | NC | PR30S-TM20D-E2 | PR30S-TM20D-E2 | PR30S-TM20DNC-E2 | PR30S-TM20DNC-E2 | PNP | NC | PR30S-TM20D-E2 | PR30S-TM20D-E2 | PR30S-TM20DPC-E2 | PR30S-TM20DPC-E2 |
| NPN | NO+NC | PR30S-TM20D-E2 | PR30S-TM20D-E2 | PR30S-TM20DNR-E2 | PR30S-TM20DNR-E2 | PNP | NO+NC | PR30S-TM20D-E2 | PR30S-TM20D-E2 | PR30S-TM20DPR-E2 | PR30S-TM20DPR-E2 |

Technical specifications

| | | | |
|-------------------------|-----------------------------|-----------------------|---|
| Detection type | Through beam | Consumption current | ≤25mA |
| Rated distance [Sn] | 20m (non-adjustable) | Circuit protection | Short-circuit and reverse polarity |
| Standard target | > φ15mm opaque object | Response time | < 8.2ms |
| Light source | Infrared LED (880nm) | Output indicator | Emitter: Green LED Receiver: Yellow LED |
| Dimensions | M30*80mm | Ambient temperature | -15°C...+55°C |
| Output | NO/NC (depends on receiver) | Ambient humidity | 35-85%RH (non-condensing) |
| Supply voltage | 10...30 VDC | Voltage withstand | 1000V/AC 50/60Hz 60s |
| Min target | | Insulation resistance | ≥50MΩ(500VDC) |
| Hysteresis range [%/Sr] | | Vibration resistance | 10...50Hz (0.5mm) |
| Repeat accuracy [R] | ≤5% | Degree of protection | IP67 |
| Load current | ≤200mA (receiver) | Housing material | PBT |
| Residual voltage | ≤2.5V (receiver) | Connection type | M12 Connector |

Dimensions



Wiring diagram

