

## Metal cylindrical shape photoelectric sensors **PR30** series



### Features

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



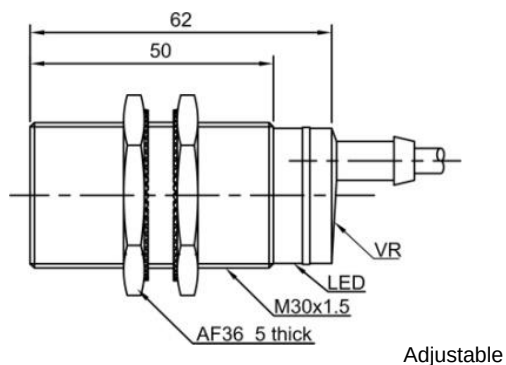
### Part number

|           |              |               |           |              |               |
|-----------|--------------|---------------|-----------|--------------|---------------|
| NPN NO    | PR30-BC50DNO | PR30-BC100DNO | PNP NO    | PR30-BC50DPO | PR30-BC100DPO |
| NPN NC    | PR30-BC50DNC | PR30-BC100DNC | PNP NC    | PR30-BC50DPC | PR30-BC100DPC |
| NPN NO+NC | PR30-BC50DNR | PR30-BC100DNR | PNP NO+NC | PR30-BC50DPR | PR30-BC100DPR |

### Technical specifications

|                         |                                      |                       |                                              |
|-------------------------|--------------------------------------|-----------------------|----------------------------------------------|
| Detection type          | Diffuse reflection                   | Consumption current   | ≤25mA                                        |
| Rated distance [Sn]     | 50cm (adjustable) 100cm (adjustable) | Circuit protection    | Short-circuit, overload and reverse polarity |
| Standard target         | White card reflection rate 90%       | Response time         | < 8.2ms                                      |
| Light source            | Infrared LED (880nm)                 | Output indicator      | Yellow LED                                   |
| Dimensions              | M30*62mm                             | Ambient temperature   | -15°C...+55°C                                |
| Output                  | NO/NC (depends on part No.)          | Ambient humidity      | 35-85%RH (non-condensing)                    |
| Supply voltage          | 10...30 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            | ≤200mA                               | Housing material      | Nickel-copper alloy                          |
| Residual voltage        | ≤2.5V                                | Connection type       | 2m PVC cable                                 |

### Dimensions



### Wiring diagram

