

## Metal cylindrical shape photoelectric sensors **PR18** series



### Features

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



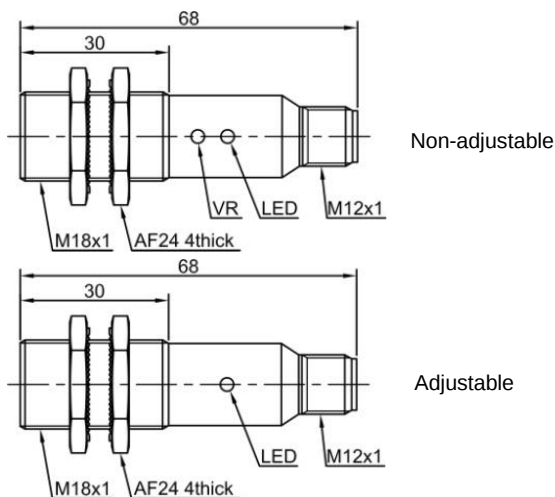
### Part number

|           |                 |                 |           |                 |                 |
|-----------|-----------------|-----------------|-----------|-----------------|-----------------|
| NPN NO    | PR18-BC10DNO-E2 | PR18-BC40DNO-E2 | PNP NO    | PR18-BC10DPO-E2 | PR18-BC40DPO-E2 |
| NPN NC    | PR18-BC10DNC-E2 | PR18-BC40DNC-E2 | PNP NC    | PR18-BC10DPC-E2 | PR18-BC40DPC-E2 |
| NPN NO+NC | PR18-BC10DNR-E2 | PR18-BC40DNR-E2 | PNP NO+NC | PR18-BC10DPR-E2 | PR18-BC40DPR-E2 |

### Technical specifications

|                         |                                         |                       |                                              |
|-------------------------|-----------------------------------------|-----------------------|----------------------------------------------|
| Detection type          | Diffuse reflection                      | Consumption current   | ≤25mA                                        |
| Rated distance [Sn]     | 10cm (non-adjustable) 40cm (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              | M18*68mm                                | 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       | M12 Connector                                |

### Dimensions



### Wiring diagram

