

## Plastic cylindrical shape photoelectric sensors **PR18S** series



### Features

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



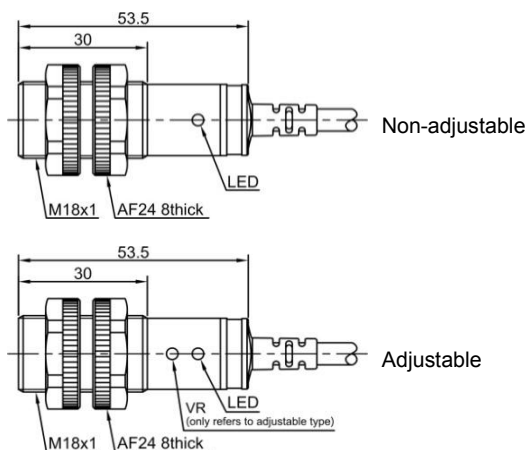
### Part number

|           |               |               |           |               |               |
|-----------|---------------|---------------|-----------|---------------|---------------|
| NPN NO    | PR18S-BC10DNO | PR18S-BC40DNO | PNP NO    | PR18S-BC10DPO | PR18S-BC40DPO |
| NPN NC    | PR18S-BC10DNC | PR18S-BC40DNC | PNP NC    | PR18S-BC10DPC | PR18S-BC40DPC |
| NPN NO+NC | PR18S-BC10DNR | PR18S-BC40DNR | PNP NO+NC | PR18S-BC10DPR | PR18S-BC40DPR |

### 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*53.5mm                            | 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      | PBT                                          |
| Residual voltage        | ≤2.5V                                 | Connection type       | 2m PVC cable                                 |

### Dimensions



### Wiring diagram

