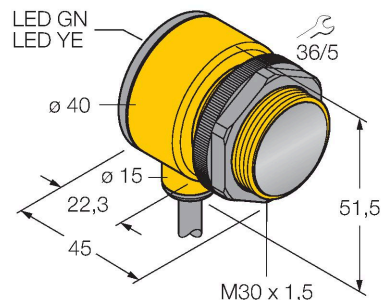


# T30SP6LP

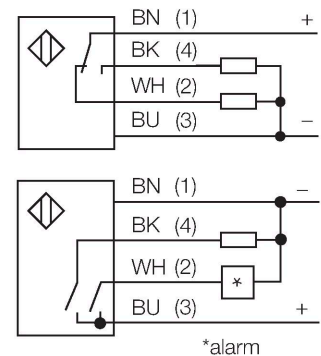
## Photoelectric Sensor – Retroreflective Sensor with Polarizing Filter



### Features

- Cable, 2 m
- Protection class IP67
- Ambient temperature: -40...+70 °C
- Operating voltage: 10...30 VDC
- PNP switching output, changeover

### Wiring diagram

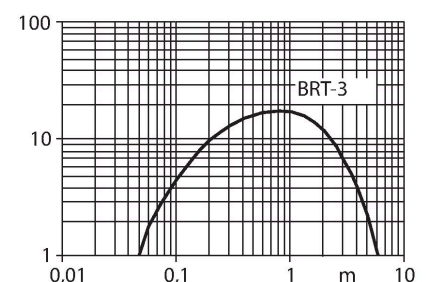


### Technical data

|                                |                                 |
|--------------------------------|---------------------------------|
| Type                           | T30SP6LP                        |
| ID                             | 3032488                         |
| <b>Optical data</b>            |                                 |
| Function                       | Retroreflective Sensor          |
| Operating mode                 | Polarized                       |
| Reflector included in delivery | no                              |
| Light type                     | Red polarized                   |
| Wavelength                     | 680 nm                          |
| Range                          | 50...6000 mm                    |
| <b>Electrical data</b>         |                                 |
| Operating voltage              | 10...30 VDC                     |
| No-load current                | ≤ 30 mA                         |
| Short-circuit protection       | yes / Cyclic                    |
| Reverse polarity protection    | yes                             |
| Output function                | Connection programmable, PNP    |
| Switching frequency            | ≤ 160 Hz                        |
| Readiness delay                | ≤ 100 ms                        |
| Response time typical          | < 3 ms                          |
| Overcurrent release            | > 220 mA                        |
| <b>Mechanical data</b>         |                                 |
| Design                         | Tube, T30                       |
| Dimensions                     | Ø 30 x 45 x 40 x 51.5 mm        |
| Housing material               | Plastic, Thermoplastic material |
| Lens                           | plastic, Acrylic                |
| Electrical connection          | Cable, 2 m, PVC                 |
| Number of cores                | 4                               |

### Functional principle

Retro-reflective sensors incorporate emitter and receiver in a single compact housing. The light beam of the emitter is directed towards a reflector which returns the light back to the receiver. An object is detected when it interrupts this beam. Retro-reflective sensors have a high function gain and good contrast performance. Further it is merely required to install and wire a single device. Excess gain curve  
Excess gain in relation to the distance



## Technical data

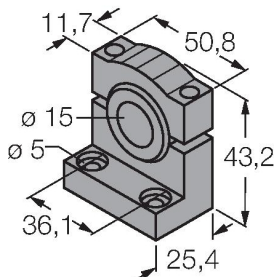
|                        |                           |
|------------------------|---------------------------|
| Core cross-section     | 0.5 mm <sup>2</sup>       |
| Ambient temperature    | -40...+70 °C              |
| Protection class       | IP69                      |
| Special features       | Encapsulated<br>Wash down |
| Power-on indication    | LED, Green                |
| Switching state        | LED, Yellow               |
| Error indication       | LED, green, Flashing      |
| Excess gain indication | LED                       |
| Alarm display          | LED yellow Flashing       |
| <b>Tests/approvals</b> |                           |
| Approvals              | CE, UL, CSA               |

## Accessories

### SMB1815SF

3053279

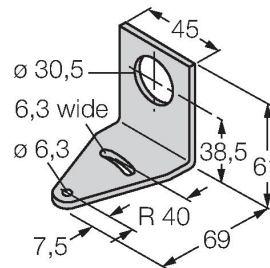
Mounting bracket, PBT black, for PICO-GUARD points



### SMB30A

3032723

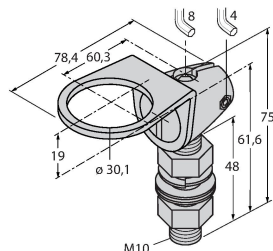
Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread



### SMB30FAM10

3011185

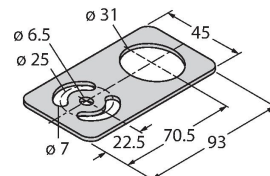
Mounting bracket, stainless steel, for M10 x 1.5 thread, thread length 30 mm



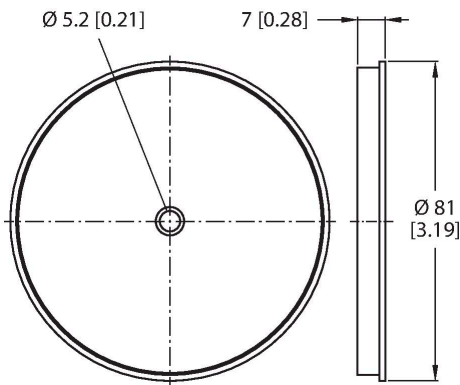
### SMBAMS30P

3073135

Mounting bracket, stainless steel, for sensors with 30 mm thread



Accessories

| Dimension drawing                                                                 | Type  | ID      |                                                                                                 |
|-----------------------------------------------------------------------------------|-------|---------|-------------------------------------------------------------------------------------------------|
|  | BRT-3 | 3016164 | Round reflector, reflection coefficient 1.0, material acrylic, ambient temperature -20...+60 °C |