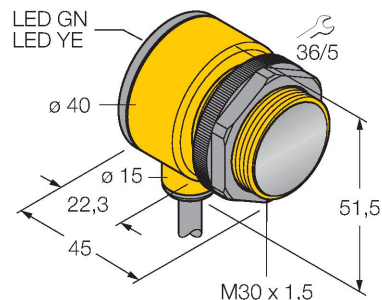


# T30SN6FF200

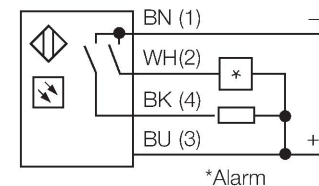
## Photoelectric Sensor – Diffuse Mode Sensor with Fixed-Field Background Suppression



### Features

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

### Wiring diagram

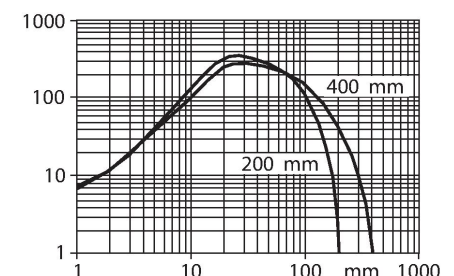


### Functional principle

The emitter and receiver are incorporated in a single housing. The light reflection of the target is detected and triggers the sensor to switch. Thus the switching distance largely depends on the reflectivity of the target.

Excess gain curve

Excess gain in relation to the distance



### Technical data

|                             |                                        |
|-----------------------------|----------------------------------------|
| Type                        | T30SN6FF200                            |
| ID                          | 3032479                                |
| <b>Optical data</b>         |                                        |
| Function                    | Proximity switch                       |
| Operating mode              | Background suppression, non-adjustable |
| Light type                  | IR                                     |
| Wavelength                  | 880 nm                                 |
| Range                       | 0...200 mm                             |
| <b>Electrical data</b>      |                                        |
| Operating voltage           | 10...30 VDC                            |
| No-load current             | ≤ 35 mA                                |
| Short-circuit protection    | yes / Cyclic                           |
| Reverse polarity protection | yes                                    |
| Output function             | Connection programmable, NPN           |
| 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                                      |
| Core cross-section          | 0.5 mm <sup>2</sup>                    |

## Technical data

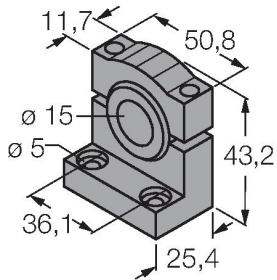
|                        |                                           |
|------------------------|-------------------------------------------|
| Ambient temperature    | -40...+70 °C                              |
| Protection class       | IP69                                      |
| Special features       | 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> |                                           |
| MTTF                   | 448 years acc. to SN 29500 (Ed. 99) 40 °C |
| Approvals              | CE, UL, CSA                               |

## Accessories

### SMB1815SF

3053279

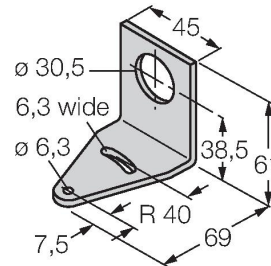
Mounting bracket, PBT black, for PICO-GUARD points



### SMB30A

3032723

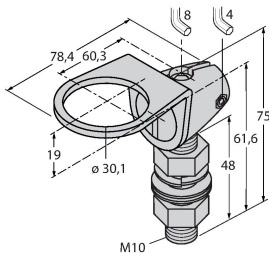
Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread



### 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

