

# T30AW3FF600

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



### Features

- Cable, 2 m
- Protection class IP67
- Ambient temperature: -40...+70 °C

### Wiring diagram

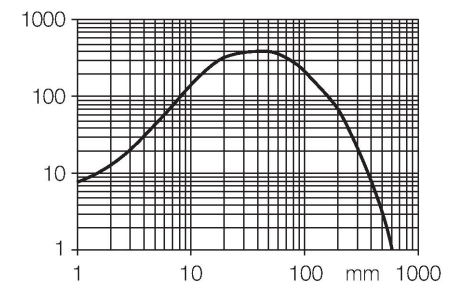


### Functional principle

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                         | T30AW3FF600                            |
| ID                           | 3032492                                |
| <b>Optical data</b>          |                                        |
| Function                     | Proximity switch                       |
| Operating mode               | Background suppression, non-adjustable |
| Light type                   | IR                                     |
| Wavelength                   | 880 nm                                 |
| Range                        | 0...600 mm                             |
| <b>Electrical data</b>       |                                        |
| Operating voltage            | 20...250 VAC                           |
| AC rated operational current | ≤ 200 mA                               |
| Output function              | Light operation, Relay output          |
| Switching frequency          | ≤ 40 Hz                                |
| Readiness delay              | ≤ 100 ms                               |
| Response time typical        | < 16 ms                                |
| <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              | 3                                      |
| Core cross-section           | 0.5 mm <sup>2</sup>                    |
| Ambient temperature          | -40...+70 °C                           |
| Protection class             | IP69                                   |
| Special features             | Encapsulated                           |

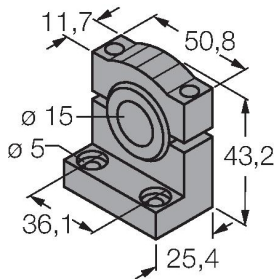
## Technical data

|                        |                                           |
|------------------------|-------------------------------------------|
|                        | Wash down                                 |
| Power-on indication    | LED, Green                                |
| Switching state        | LED, Yellow                               |
| Excess gain indication | LED                                       |
| <b>Tests/approvals</b> |                                           |
| MTTF                   | 448 years acc. to SN 29500 (Ed. 99) 40 °C |
| Approvals              | CE, UL, CSA                               |

## Accessories

### SMB1815SF

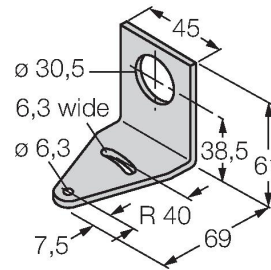
3053279



Mounting bracket, PBT black, for PICO-GUARD points

### SMB30A

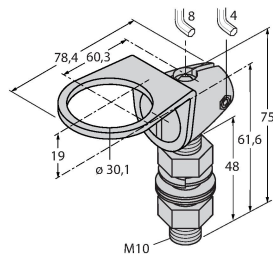
3032723



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

### SMB30FAM10

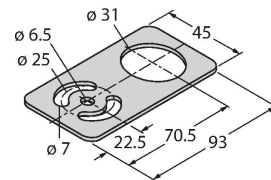
3011185



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