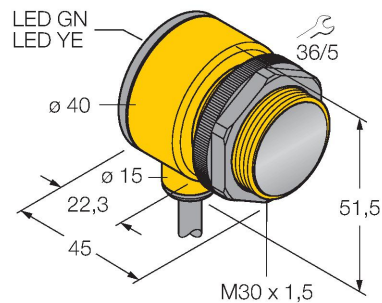


# T30AW3FF100 W/30'

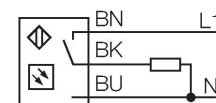
## Photoelectric Sensor – Diffuse Mode Sensor with Fixed-Field Background Suppression



### Features

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

### Wiring diagram

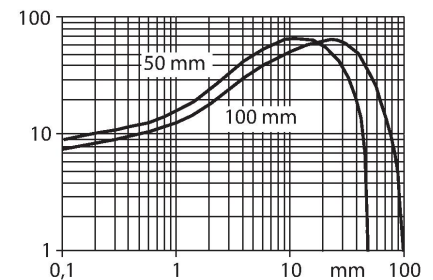


### Functional principle

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



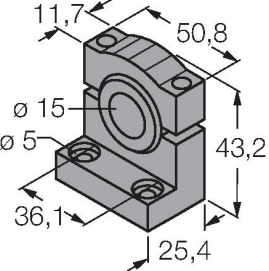
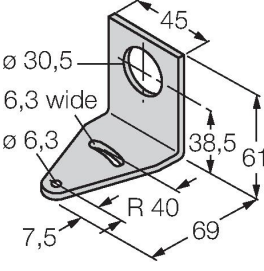
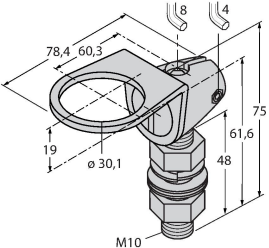
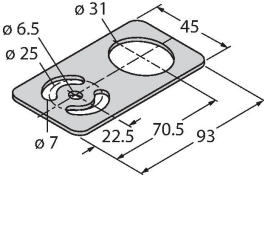
### Technical data

|                              |                                                             |
|------------------------------|-------------------------------------------------------------|
| Type                         | T30AW3FF100 W/30'                                           |
| ID no.                       | 3035325                                                     |
| <b>Optical data</b>          |                                                             |
| Function                     | Diffuse mode sensor with fixed-field background suppression |
| Light type                   | IR                                                          |
| Wavelength                   | 880 nm                                                      |
| Range                        | 0...100 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                                                     |
| <b>Mechanical data</b>       |                                                             |
| Design                       | Rectangular with thread, T30                                |
| Dimensions                   | 45 x 40 x 51.5 mm                                           |
| Housing material             | Plastic, PBT                                                |
| Lens                         | plastic, Acrylic                                            |
| Electrical connection        | Cable, 2 m, PVC                                             |
| Number of cores              | 4                                                           |
| Core cross-section           | 0.5 mm <sup>2</sup>                                         |
| Ambient temperature          | -40...+70 °C                                                |
| Protection class             | IP67                                                        |
| Special features             | Wash down                                                   |
| Power-on indication          | LED, Green                                                  |
| Switching state              | LED, Yellow                                                 |

Technical data

| Tests/approvals |                                           |
|-----------------|-------------------------------------------|
| MTTF            | 448 years acc. to SN 29500 (Ed. 99) 40 °C |
| Approvals       | CE, UL, CSA                               |

Accessories

|                                                                                    |                                                                              |  |                                                                                     |                                                                              |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| <b>SMB1815SF</b>                                                                   | <b>3053279</b>                                                               |  | <b>SMB30A</b>                                                                       | <b>3032723</b>                                                               |
|   | Mounting bracket, PBT black, for PICO-GUARD points                           |  |   | Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread |
| <b>SMB30FAM10</b>                                                                  | <b>3011185</b>                                                               |  | <b>SMBAMS30P</b>                                                                    | <b>3073135</b>                                                               |
|  | Mounting bracket, stainless steel, for M10 x 1.5 thread, thread length 30 mm |  |  | Mounting bracket, stainless steel, for sensors with 30 mm thread             |