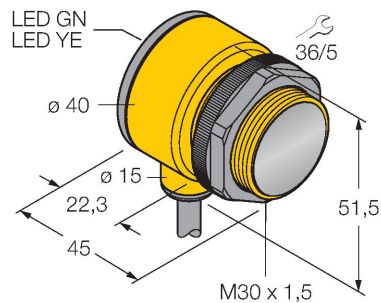


# T303E W/30

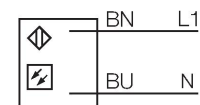
## Photoelectric Sensor – Opposed Mode Sensor (Emitter)



### Features

- Cable, 2 m
- Protection class IP67
- Ambient temperature: -40...+70 °C
- Operating voltage: 20...250 VAC

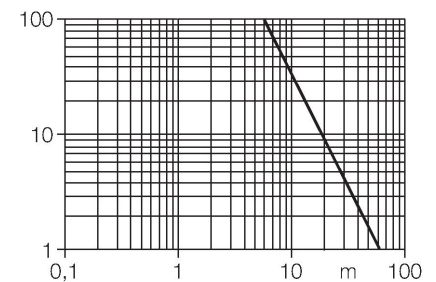
### Wiring diagram



### Functional principle

Opposed mode sensors consist of an emitter and receiver. They are installed opposite to each other so that the light from the emitter is aimed directly at the receiver. When an object interrupts or weakens the light beam, the sensor switches. Opposed mode sensors are the most reliable photoelectric sensors for detection of opaque targets. The excellent light/dark contrast and the high excess gain allow operation over larger distances and under difficult conditions.

Excess gain curve  
Excess gain in relation to the distance



### Technical data

|                        |                                 |
|------------------------|---------------------------------|
| Type                   | T303E W/30                      |
| ID                     | 3033944                         |
| <b>Optical data</b>    |                                 |
| Function               | Opposed mode sensor             |
| Operating mode         | Emitter                         |
| Light type             | IR                              |
| Wavelength             | 950 nm                          |
| Range                  | 0...60000 mm                    |
| <b>Electrical data</b> |                                 |
| Operating voltage      | 20...250 VAC                    |
| 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, 9 m, PVC                 |
| Number of cores        | 2                               |
| 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                      |
| Excess gain indication | LED                             |

## Technical data

### Tests/approvals

Approvals

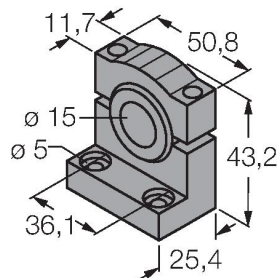
CE, UL, CSA

## Accessories

SMB1815SF

3053279

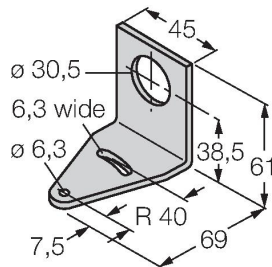
Mounting bracket, PBT black, for PICO-GUARD points



SMB30A

3032723

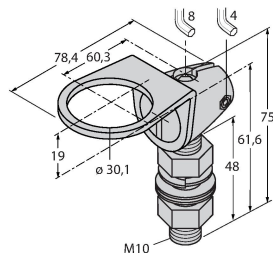
Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread



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

