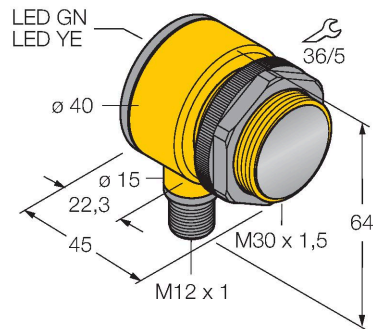


T303EQ3

Photoelectric Sensor – Opposed Mode Sensor (Emitter)



Technical data

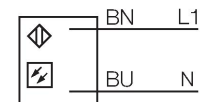
| | |
|------------------------|---------------------------------|
| Type | T303EQ3 |
| ID no. | 3036949 |
| Optical data | |
| Function | Opposed mode sensor |
| Operating mode | Emitter |
| Light type | IR |
| Wavelength | 950 nm |
| Range | 0...60000 mm |
| Electrical data | |
| Operating voltage | 20...250 VAC |
| Readiness delay | ≤ 100 ms |
| Response time typical | < 16 ms |
| Mechanical data | |
| Design | Rectangular with thread, T30 |
| Dimensions | Ø 30 x 45 x 40 x 64 mm |
| Housing material | Plastic, Thermoplastic material |
| Lens | plastic, Acrylic |
| Electrical connection | Connectors, M12 × 1, PVC |
| Number of cores | 5 |
| Ambient temperature | -40...+70 °C |
| Protection class | IP69 |
| Special features | Encapsulated Wash down |
| Power-on indication | LED, Green |
| Excess gain indication | LED |
| Tests/approvals | |
| Approvals | CE, UL, CSA |



Features

- M12 × 1 male connector, 4-pin
- Protection classes IP67/IP69K
- Ambient temperature: -40 °C...+70 °C
- Operating voltage: 20...250 VAC

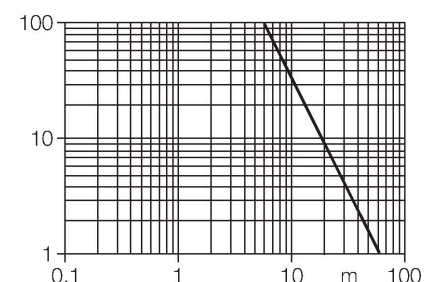
Wiring diagram



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.

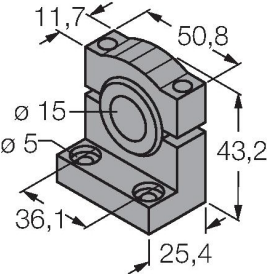
Excess gain curve
Excess gain in relation to the distance



Accessories

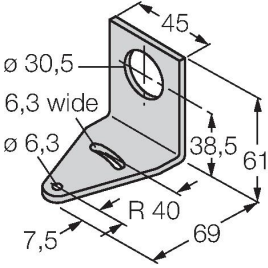
SMB1815SF 3053279

Mounting bracket, PBT black, for PICO-GUARD points



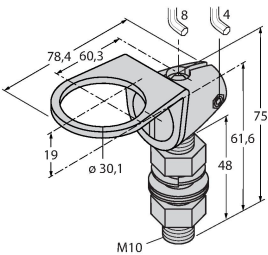
SMB30A 3032723

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

