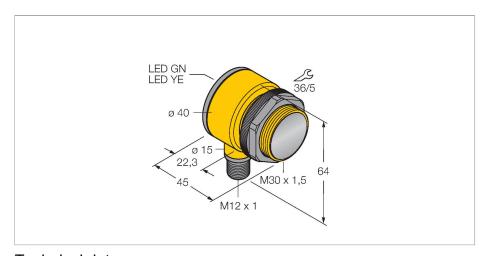
# T30AW3LPQ1 Photoelectric Sensor – Retroreflective Sensor with Polarizing Filter





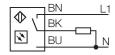
| Туре                           | T30AW3LPQ1                      |
|--------------------------------|---------------------------------|
| ID                             | 3033440                         |
| Optical data                   |                                 |
| Function                       | Retroreflective Sensor          |
| Operating mode                 | Polarized                       |
| Reflector included in delivery | no                              |
| Light type                     | Red polarized                   |
| Wavelength                     | 680 nm                          |
| Range                          | 506000 mm                       |
| Electrical data                |                                 |
| Operating voltage              | 20250 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                         |
| Mechanical data                |                                 |
| Design                         | Tube, T30                       |
| Dimensions                     | Ø 30 x 45 x 40 x 64 mm          |
| Housing material               | Plastic, Thermoplastic material |
| Lens                           | plastic, Acrylic                |
| Electrical connection          | Connector, 1/2", PVC            |
| Number of cores                | 4                               |
| Ambient temperature            | -40+70 °C                       |
| Protection class               | IP69                            |
| Special features               | Encapsulated                    |



# **Features**

- ■M12 × 1 male connector, 4-pin
- Protection classes IP67/IP69K
- ■Ambient temperature: -40 °C...+70 °C

# Wiring diagram

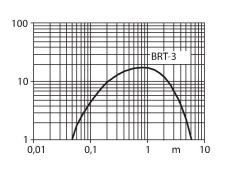


# Functional principle

Retro-reflective sensors incorporate emitter and receiver in a single compact housing. The light beam of the emitter is directed towards a reflector which returns the light back to the receiver. An object is detected when it interrupts this beam. Retro-reflective sensors have a high function gain and good contrast performance. Further it is merely required to install and wire a single device. Excess gain curve

Excess gain curve

Excess gain in relation to the distance

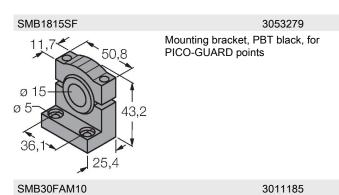


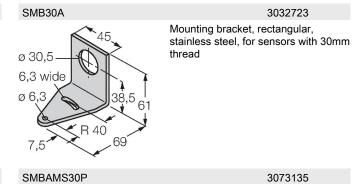


# Technical data

|                        | Wash down   |
|------------------------|-------------|
| Power-on indication    | LED, Green  |
| Switching state        | LED, Yellow |
| Excess gain indication | LED         |
| Tests/approvals        |             |
| Approvals              | CE, UL, CSA |
| Tests/approvals        |             |

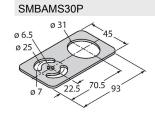
# Accessories







Mounting bracket, stainless steel, for M10 x 1.5 thread, thread length 30  $\,$  mm



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

# Accessories

