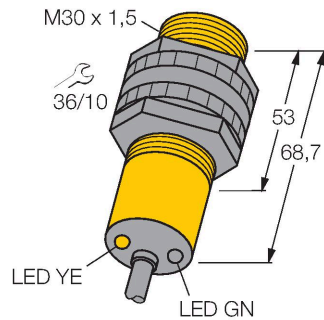


S30AW3R W/30

Photoelectric Sensor – Opposed Mode Sensor (Receiver)



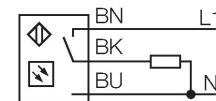
Technical data

| | |
|------------------------------|---------------------------------|
| Type | S30AW3R W/30 |
| ID no. | 3033895 |
| Optical data | |
| Function | Opposed mode sensor |
| Operating mode | Receiver |
| Range | 0...60000 mm |
| Electrical data | |
| 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 |
| Mechanical data | |
| Design | Threaded barrel, S30 |
| Dimensions | Ø 30 x 80.7 mm |
| Housing material | Plastic, Thermoplastic material |
| Lens | plastic, Acrylic |
| Electrical connection | Cable, 9 m, PVC |
| Number of cores | 3 |
| Ambient temperature | -40...+70 °C |
| Protection class | IP67 |
| Special features | Encapsulated |
| Power-on indication | LED, Green |
| Switching state | LED, Yellow |
| Excess gain indication | LED |

Features

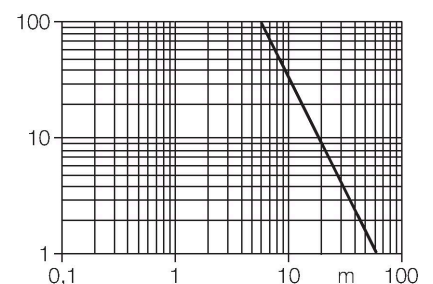
- Cable, 2 m
- Protection class IP67
- Ambient temperature: -40...+70 °C

Wiring diagram



Functional principle

Opposed mode sensors consist of an emitter and receiver. They are installed opposite 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. An excellent contrast between light and dark conditions and an extremely high excess gain are typical of this sensing mode, thus allowing operation over larger distances and under difficult conditions. Excess gain curve
Excess gain in relation to the distance

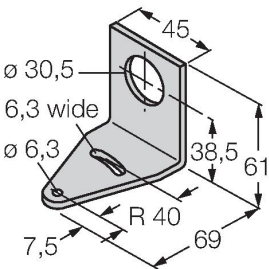


Technical data

| Tests/approvals | |
|-----------------|-------------|
| Approvals | CE, UL, CSA |

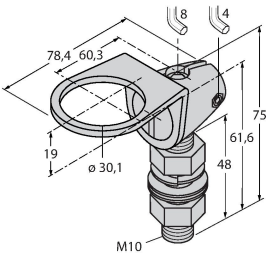
Accessories

SMB30A 3032723



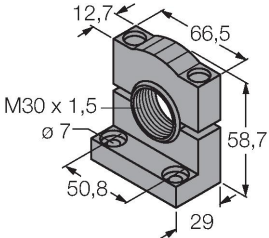
Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread

SMB30FAM10 3011185



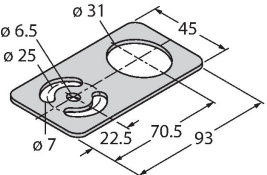
Mounting bracket, stainless steel, for M10 x 1.5 thread, thread length 30 mm

SMB30SC 3052521



Mounting bracket, PBT black, for sensors with 30 mm thread, rotatable

SMBAMS30P 3073135



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