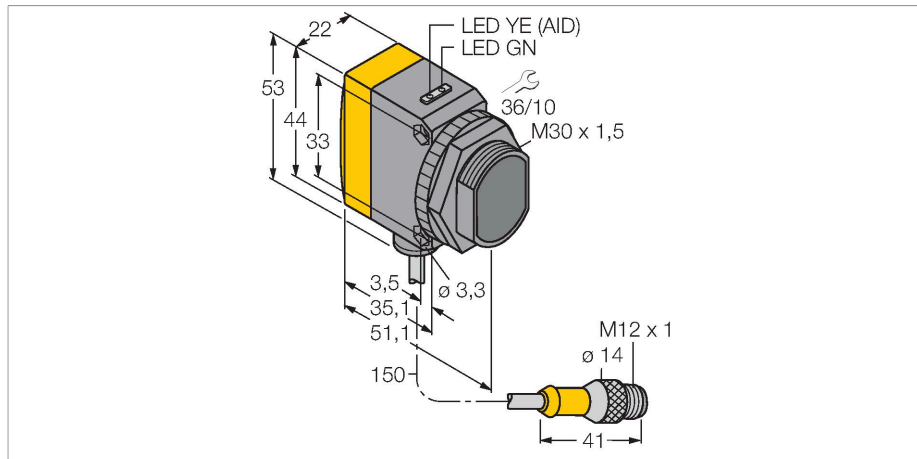


QS30RRXSH2OQ5

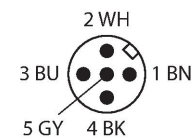
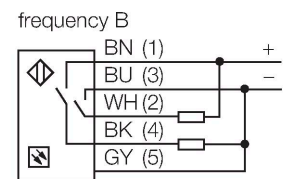
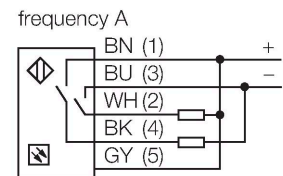
Photoelectric Sensor – Opposed Mode Sensor (Emitter/Receiver) For Water Detection



Features

- Male M12 × 1, 5-pin
- Protection class IP67
- Male connector, M12 × 1, 5-pole
- Super high-power water detection sensor
- Operating voltage: 10...30 VDC
- Switching output, bipolar, dark operation

Wiring diagram



Functional principle

The opposed mode sensor incorporates an emitter and a receiver. The emitter emits light in the near IR range with a wavelength of 1450 nm, which approximates one of the absorption edges of water. The resulting high contrast ratio leads to a particularly high sensitivity with water or media containing water as opposed to transparent media.

Technical data

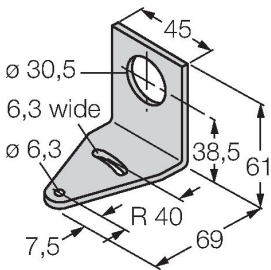
| | |
|------------------------------|--|
| Type | QS30RRXSH2OQ5 |
| ID no. | 3083306 |
| Optical data | |
| Function | Opposed mode sensor |
| Operating mode | Receiver |
| Range | 0...8000 mm |
| Electrical data | |
| Operating voltage | 10...30 VDC |
| Residual ripple | < 10 % U _{ss} |
| DC rated operational current | ≤ 65 mA |
| Short-circuit protection | yes |
| Reverse polarity protection | yes |
| Output function | NO contact, dark operation, PNP/NPN |
| Readiness delay | ≤ 100 ms |
| Response time typical | < 10 ms |
| Mechanical data | |
| Design | Rectangular with thread, QS30 |
| Dimensions | Ø 30 x 54.3 x 22 x 57 mm |
| Housing material | Plastic, Thermoplastic material, Yellow |
| Lens | plastic, Acrylic |
| Electrical connection | Cable with connector, M12 × 1, 0.15 m, PVC |
| Number of cores | 5 |
| Core cross-section | 0.5 mm ² |
| Ambient temperature | -20...+60 °C |

Technical data

| | |
|------------------------|---------------------------------|
| Protection class | IP67 |
| Special features | Encapsulated Water detection |
| Power-on indication | LED, Green |
| Switching state | LED, Yellow |
| Error indication | LED, green, Flashing |
| Excess gain indication | Bargraph, yellow, flashing |
| Tests/approvals | |
| Approvals | CE |

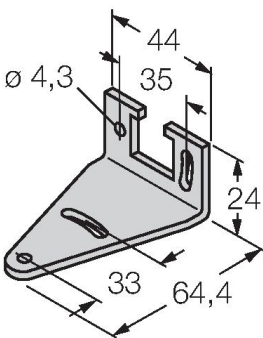
Accessories

SMB30A 3032723



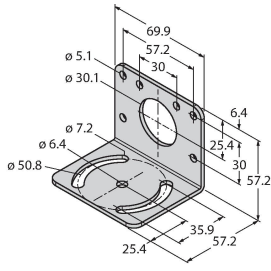
Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread

SMBQS30L 3002809



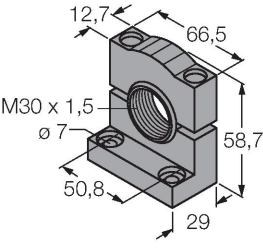
Mounting bracket, stainless steel, for QS30 series

SMB30MM 3027162



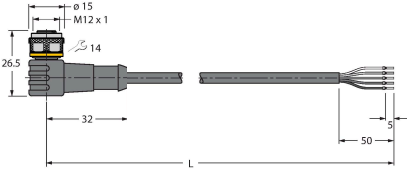
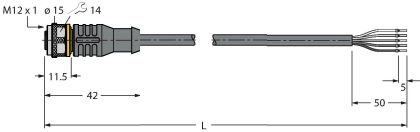
Mounting bracket, rectangular, stainless steel, for sensors with 30 mm thread, wide holes for accurate alignment

SMB30SC 3052521



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

Accessories

| Dimension drawing | Type | ID no. | |
|---|---------------|---------|--|
|  | WKC4.5T-2/TEL | 6625028 | Connection cable, female M12, angled, 5-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com |
|  | RKC4.5T-2/TEL | 6625016 | Connection cable, female M12, straight, 5-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com |