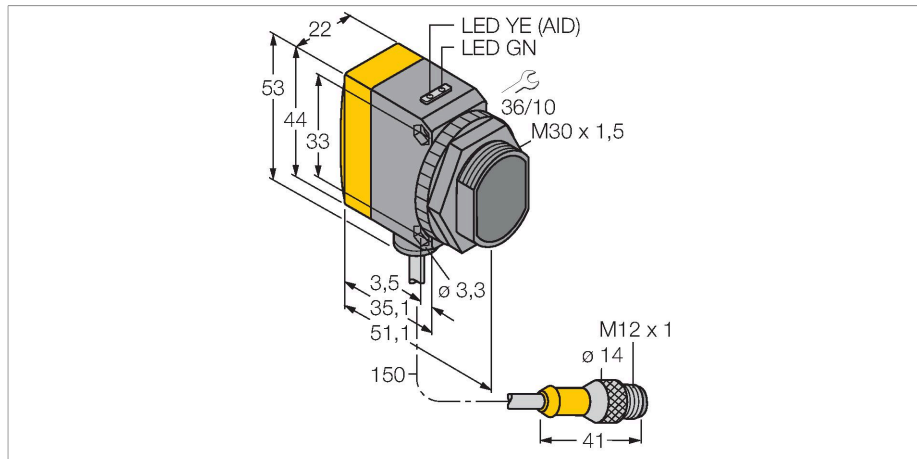


QS30RXH2OUQ5

Photoelectric Sensor – Opposed Mode Sensor (Emitter/Receiver)

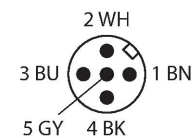
For Water Detection



Features

- Male M12 × 1, 5-pin
- Protection class IP67
- LED all-round visible
- Selectable operating frequency, protection against crosstalk
- Operating voltage: 15...30 VDC
- Analog output, 0...10 V

Wiring diagram



Technical data

Type	QS30RXH2OUQ5
ID	3079181
Optical data	
Function	Opposed mode sensor
Operating mode	Receiver
Range	0...4000 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	Analog output
Type of analog output	0...10 V
Voltage output	0...10 V
Load resistance	≥ 2000 Ω
Readiness delay	≤ 100 ms
Response time typical	< 25 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

Functional principle

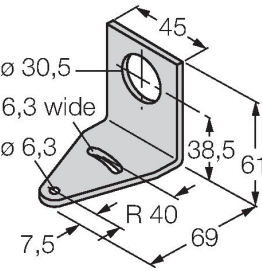
The opposed mode sensor incorporates an emitter and a receiver. The emitter emits light in the near IR range with a wavelength of 1450 nm, which approximates one of the absorption edges of water. The resulting high contrast ratio leads to a particularly high sensitivity with water or media containing water as opposed to transparent media. The receiver converts the light intensity to an analog output signal of 0...10 V, whereby 0 V indicates the continuous light beam and 10 V indicates the blocked light beam.

Technical data

Number of cores	5
Core cross-section	0.5 mm ²
Ambient temperature	-20...+60 °C
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

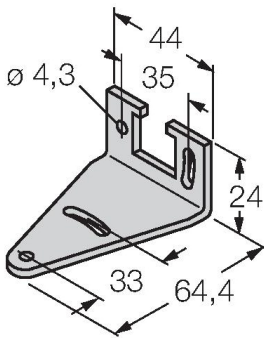
Accessories

SMB30A3032723



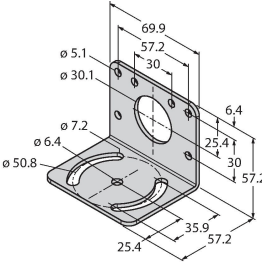
Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread

SMBQS30L3002809



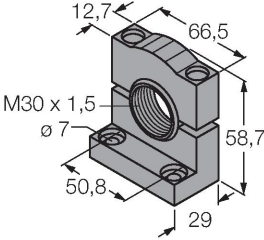
Mounting bracket, stainless steel, for QS30 series

SMB30MM3027162



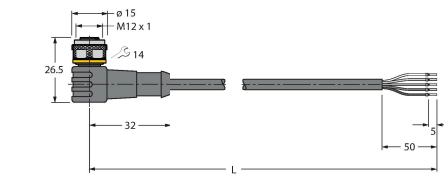
Mounting bracket, rectangular, stainless steel, for sensors with 30 mm thread, wide holes for accurate alignment

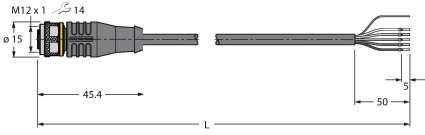
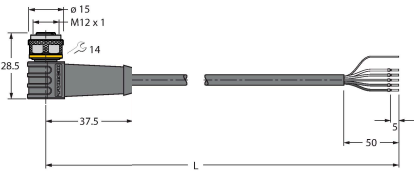
SMB30SC3052521



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

Accessories

Dimension drawing	Type	ID	
	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

Dimension drawing	Type	ID	
	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
	RKS4.5T-2/TEL	6626361	Connection cable, M12 female connector, straight, 5-pin, cable length: 2 m, sheath material: PVC, black; shielded; cULus approval; other cable lengths and qualities available, see www.turck.com
	WKS4.5T-2/TEL	6626364	Connection cable, M12 female connector, angled, 5-pin, cable length: 2 m, sheath material: PVC, black; shielded; cULus approval; other cable lengths and qualities available, see www.turck.com