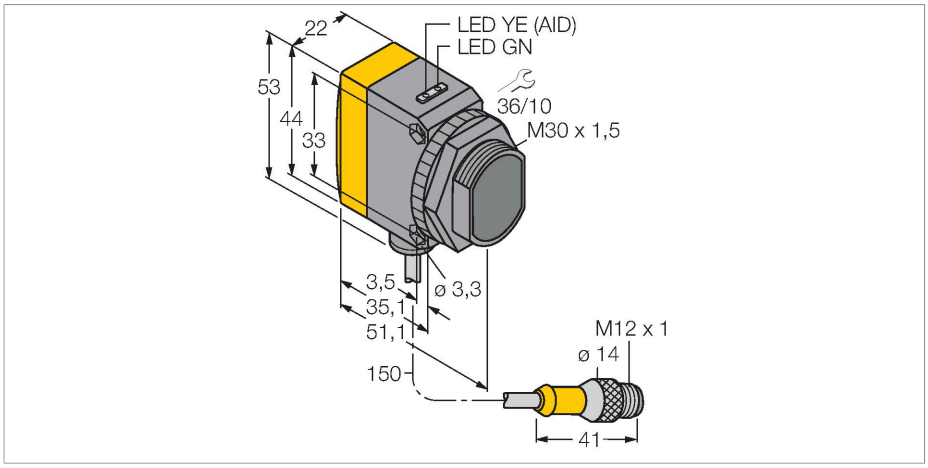
QS30RRXSH2OQ5
Photoelectric Sensor – Opposed Mode Sensor (Emitter/ Receiver)
For Water Detection



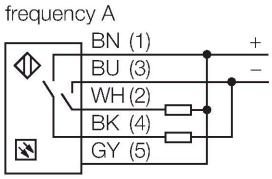
Technical data

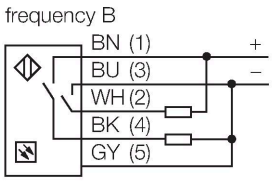
Type	QS30RRXSH2OQ5
ID	3083306
Optical data	
Function	Opposed mode sensor
Operating mode	Receiver
Range	0…8000 mm
Electrical data	
Operating voltage	10…30 VDC
Residual ripple	< 10 % U_{ss}
DC rated operational current	≤ 65 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Output function	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

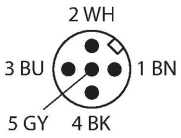
Features

- 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

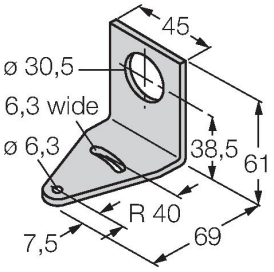
The opposed mode sensor incorporates an emitter and a receiver. The emitter emits light in the near IR range with a wavelength of 1450 nm, which approximates one of the absorption edges of water. The resulting high contrast ratio leads to a particularly high sensitivity with water or media containing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

Technical data

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

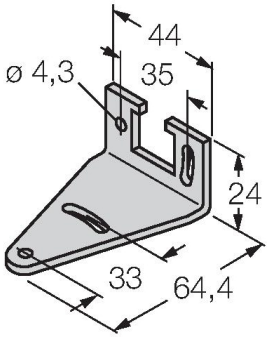
Accessories

SMB30A	3032723



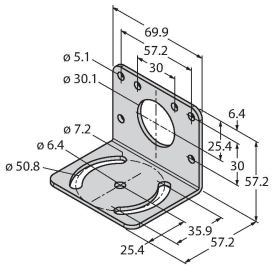
Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread

SMBQS30L	3002809



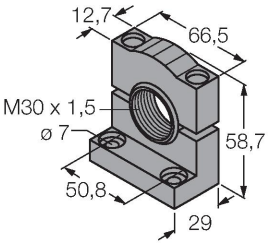
Mounting bracket, stainless steel, for QS30 series

SMB30MM	3027162



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

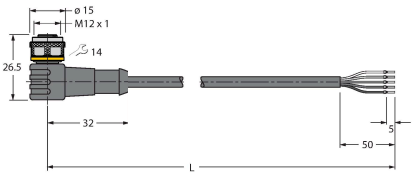
SMB30SC	3052521

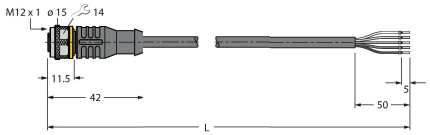


Mounting bracket, PBT black, for sensors with 30 mm thread, rotatable

Accessories

Dimension drawing	Type	ID	
	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