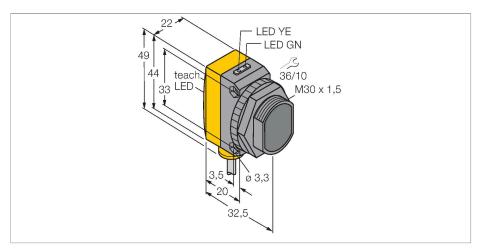


QS30ARXQP Photoelectric Sensor – Opposed Mode Sensor (Emitter/ Receiver)





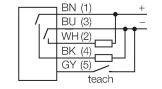
Туре	QS30ARXQP
ID	3074869
Optical data	
Function	Opposed mode sensor
Operating mode	Receiver
Wavelength	875 nm
Range	0213000 mm
Electrical data	
Operating voltage	1030 VDC
Residual ripple	< 10 % U _{ss}
DC rated operational current	≤ 150 mA
No-load current	≤ 22 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Output function	NO contact, light operation, PNP/NPN
Switching frequency	≤ 100 Hz
Readiness delay	≤ 100 ms
Response time typical	< 5 ms
Mechanical data	
Design	Rectangular with thread, QS30
Dimensions	Ø 30 x 35 x 22 x 49 mm
Housing material	Plastic, Thermoplastic material, Yellow
Lens	plastic, Zeonex
Electrical connection	Cable with connector, M12 × 1, 0.15 m, PVC
Number of cores	5

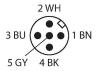


Features

- Cable with male end, M12 × 1, 5-pin, PVC, 150 mm
- ■Protection class IP67
- ■LED all-round visible
- Selectable operating frequency, protection against crosstalk
- ■4-segment bargraph
- Operating voltage: 10...30 VDC
- ■Switching output, bipolar, light operation

Wiring diagram





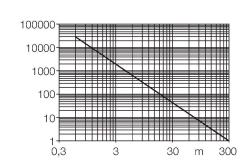
Functional principle

Opposed mode sensors consist of an emitter and receiver. They are installed opposite to 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. Large distance operation is possible due to an excellent light/dark contrast and an extremely high excess gain.

Excess gain curve
Excess gain in relation to the distance

Technical data

Ambient temperature	-20+70 °C
Protection class	IP67
Power-on indication	LED, Green
Switching state	LED, Yellow
Error indication	LED, green, Flashing
Excess gain indication	Bargraph, red, flashing
Tests/approvals	
MTTF	293 years acc. to SN 29500 (Ed. 99) 40 °C
Approvals	CE



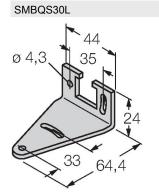
Accessories

© 30,5 6,3 wide Ø 6,3 7,5

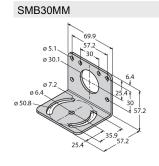
Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread

3032723

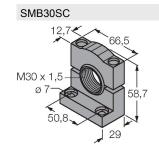
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3002809 Mounting bracket, stainless steel, for QS30 series



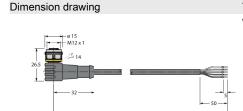
Mounting bracket, rectangular, stainless steel, for sensors with 30 mm thread, wide holes for accurate alignment



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

3052521

Accessories



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





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