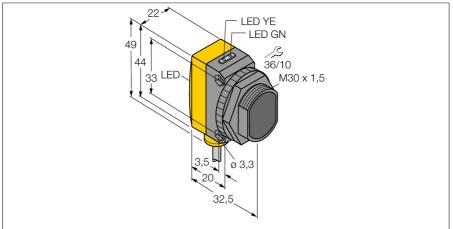
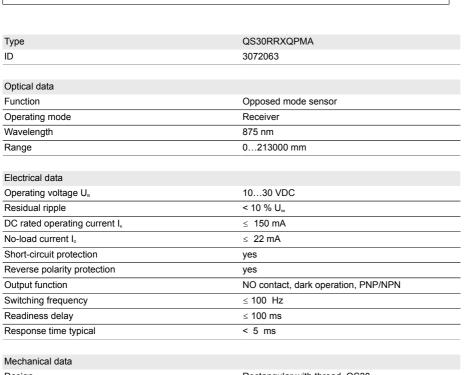


Photoelectric Sensor Opposed Mode Sensor (Emitter/Receiver) QS30RRXQPMA



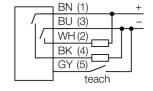


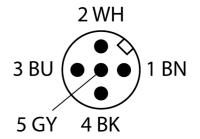
Response time typical	< 5 ms	
Mechanical data		
Design	Rectangular with thread, QS30	
Dimensions	Ø 30 x 35 x 22 x 49 mm	
Housing material	Plastic, Thermoplastic material, Yellow	
Lens	plastic, Zeonex	
Electrical connection	Cable with connector, M12 × 1, 0.15 m, PUR	
Number of cores	5	
Ambient temperature	-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	



- Cable with male end M12 × 1, 5-pin, PUR, 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, dark 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

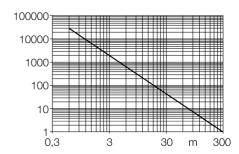


Tests/approvals	
MTTF	293 years acc. to SN 29500 (Ed. 99) 40 °C
Approvals	CE

possible due to an excellent light/dark contrast and an extremely high excess gain.

Excess gain curve

Excess gain in relation to the distance





Accessories

Type code	Ident no.		Dimension drawing
SMB30A	3032723	Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread	0 30.5 6.3 wide 0 6.3 7.5 R 40 69
SMBQS30L	3002809	Mounting bracket, stainless steel, for QS30 series	o 4,3, 35 5
			33 64.4
SMB30MM	3027162	Mounting bracket, rectangular, stainless steel, for sensors with 30 mm thread, wide holes for accurate alignment	69.9 57.2 9 30.1
			0 7.2 0 6.4 0 50.8 25.4 35.9 25.4 35.9 25.4
SMB30SC	3052521	Mounting bracket, PBT black, for sensors with 30 mm thread rotatable	12.7 66.5
			M30 x 1,5 97 50,8 29