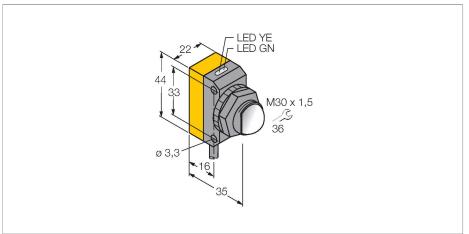
QS30RRX Photoelectric Sensor – Opposed Mode Sensor (Emitter/ Receiver)





Core cross-section

Туре	QS30RRX
ID	3071740
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	≤ 100 mA
No-load current	≤ 22 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Output function	NO contact, dark operation, PNP/NPN
Switching frequency	≤ 16 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, 2 m, PVC
Number of cores	5

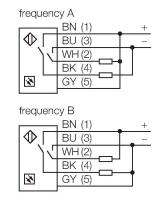
0.5 mm²



Features

- Cable, PVC, 2 m
- ■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



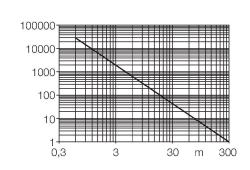
Functional principle

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 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
Special features	Encapsulated
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



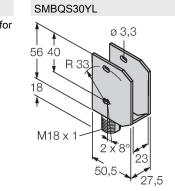
Accessories

ø 3,3 M18 x 1

SMBQS30Y 3002811

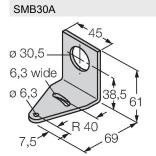
Protective housing, stainless steel, for QS30 series

26,5



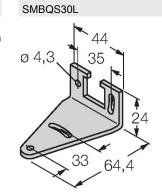
Protective housing with safety glas panel, stainless steel, for QS30 series

3072741

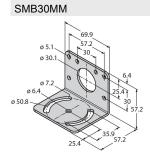


Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread

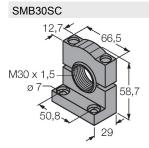
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3002809 Mounting bracket, stainless steel, for QS30 series



3027162 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