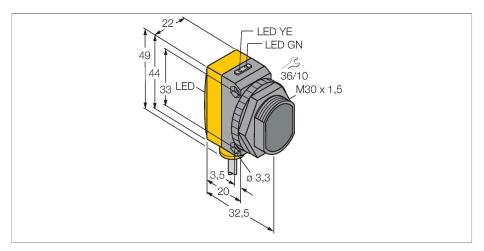


# QS30RQPMA Photoelectric Sensor – Opposed Mode Sensor (Emitter)





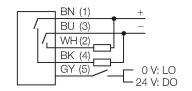
Туре	QS30RQPMA
ID no.	3073080
Optical data	
Function	Opposed mode sensor
Operating mode	Receiver
Light type	IR
Wavelength	875 nm
Range	060000 mm
Electrical data	
Operating voltage	1030 VDC
Residual ripple	< 10 % U <sub>ss</sub>
DC rated operational current	≤ 150 mA
No-load current	≤ 70 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Output function	NO contact, PNP/NPN
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, Acrylic
Electrical connection	Cable with connector, M12 × 1, 0.15 m, PUR
Number of cores	5
Ambient temperature	-20+70 °C

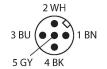


#### **Features**

- Cable with male end M12 × 1, 5-pin, PUR, 150 mm
- ■Protection class IP67
- ■LED all-round visible
- Operating voltage: 10...30 VDC
- Switching output, bipolar
- Light or dark operation

## Wiring diagram





### Functional principle

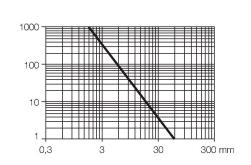
Opposed mode sensors consist of an emitter and receiver. They are installed opposite to each other so that the light from the emitter is aimed directly at the receiver. When an object interrupts or weakens the light beam, the sensor switches. Large distance operation is possible due to an excellent light/dark contrast and an extremely high excess gain.

Excess gain curve Excess gain in relation to the distance



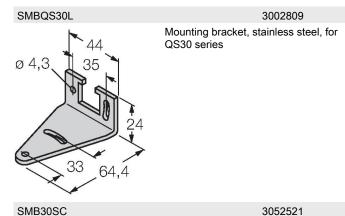
# Technical data

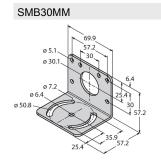
Protection class	IP67
Power-on indication	LED, Green
Switching state	LED, Yellow
Error indication	LED, green, Flashing
Excess gain indication	LED, yellow
Tests/approvals	
MTTF	402 years acc. to SN 29500 (Ed. 99) 40 °C
Approvals	CE



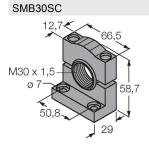
### Accessories

SMB30A	3032723
45	Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread





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



#### Accessories

