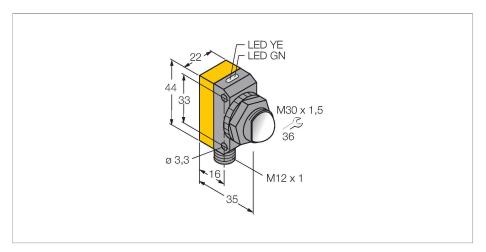


# QS30RRXQ Photoelectric Sensor – Opposed Mode Sensor (Emitter/ Receiver)





#### Technical data

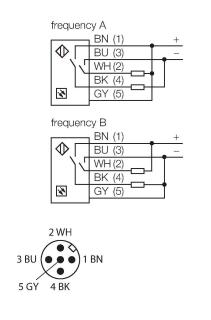
Ambient temperature

Туре	QS30RRXQ
ID	3071741
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 <sub>ss</sub>
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 57 mm
Housing material	Plastic, Thermoplastic material, Yellow
Lens	plastic, Zeonex
Electrical connection	Connector, M12 × 1, PVC
Number of cores	5

#### **Features**

- Male M12 × 1, 5-pin
- Protection classes IP67 / IP69K
- ■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

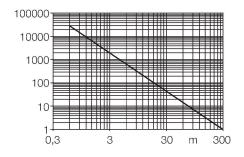
-20...+70 °C

### Technical data

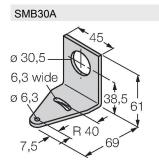
Protection class	IP69
Special features	Encapsulated Wash down
Power-on indication	LED, Green
Switching state	LED, Yellow
Error indication	LED, green, Flashing
Excess gain indication	Bargraph, red, flashing
Tests/approvals	
MTTF	293 years acc. to SN 29500 (Ed. 99) 40 °C
Approvals	CE

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



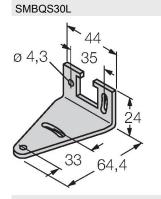
### Accessories



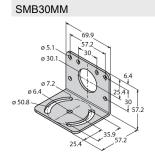
Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread

3032723

3027162



3002809 Mounting bracket, stainless steel, for QS30 series



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



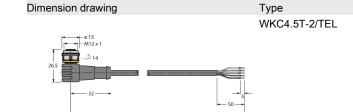
ID

6625028

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

3052521

# Accessories



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



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