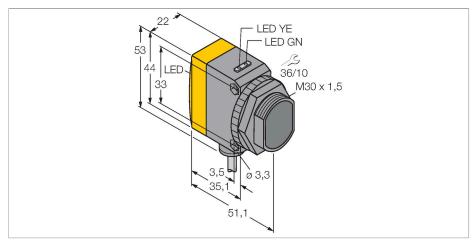
# QS30VR3R | 05-05-2021 23-41 | Technical modifications reserved

# QS30VR3R Photoelectric Sensor – Opposed Mode Sensor (Emitter/ Receiver)



### Technical data

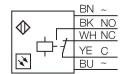
Туре	QS30VR3R
ID no.	3073069
Optical data	
Function	Opposed mode sensor
Operating mode	Receiver
Range	060000 mm
Electrical data	
Operating voltage	12250 VDC
Operating voltage	24250 VAC
No-load current	≤ 22 mA
Output function	NO/NC, Relay output
Switching frequency	≤ 33 Hz
Readiness delay	≤ 100 ms
Response time typical	< 15 ms
Mechanical data	
Design	Rectangular with thread, QS30
Dimensions	Ø 30 x 51.5 x 22 x 44 mm
Housing material	Plastic, Thermoplastic material, Yellow
Lens	plastic, Acrylic
Electrical connection	Cable, 2 m, PVC
Number of cores	5
Core cross-section	0.5 mm <sup>2</sup>
Ambient temperature	-20+70 °C
Protection class	IP67
Power-on indication	LED, Green
Switching state	LED, Yellow



### **Features**

- ■Cable, PVC, 2 m
- ■Protection class IP67
- ■LED all-round visible
- Operating voltage: 12...250 VDC or 24...
  - 250 VAC
- ■Relay output, changeover

### Wiring diagram



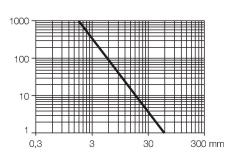
## Functional principle

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

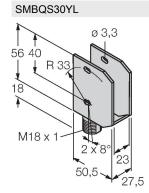
# Technical data

Excess gain indication	LED, yellow, flashing
Tests/approvals	
MTTF	293 years acc. to SN 29500 (Ed. 99) 40 °C
Approvals	CE



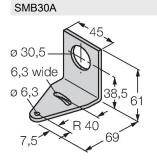
### Accessories

SMBQS30Y 56 33 Ø 3,3 M18 x 1 35 26,5 3002811 Protective housing, stainless steel, for QS30 series



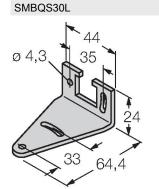
Protective housing with safety glas panel, stainless steel, for QS30 series

3072741

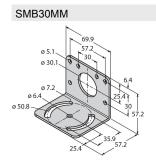


Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread

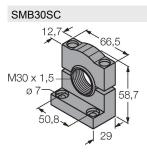
3032723



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



3052521 Mounting bracket, PBT black, for sensors with 30 mm thread, rotatable