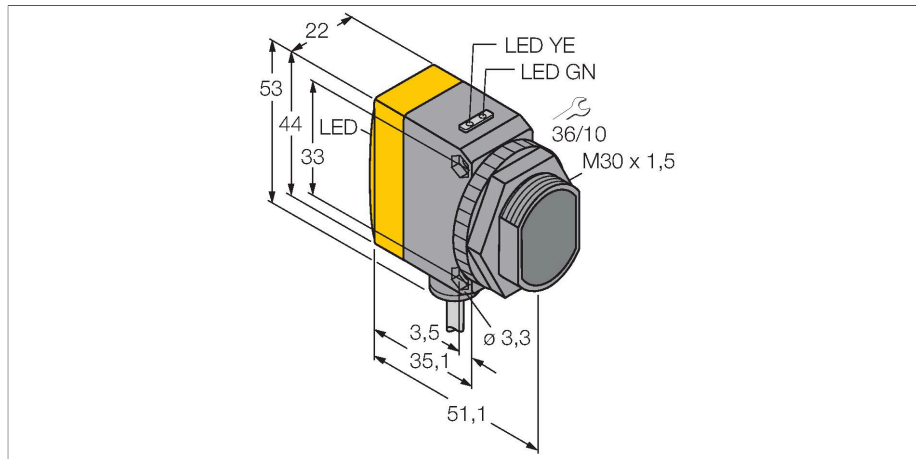


QS30VR3R

Photoelectric Sensor – Opposed Mode Sensor (Emitter/Receiver)



Technical data

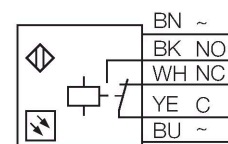
Type	QS30VR3R
ID	3073069
Optical data	
Function	Opposed mode sensor
Operating mode	Receiver
Range	0...60000 mm
Electrical data	
Operating voltage	12...250 VDC
Operating voltage	24...250 VAC
No-load current	≤ 22 mA
Output function	NO/NC, Relay output
Switching frequency	≤ 33 Hz
Readiness delay	≤ 100 ms
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 ²
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



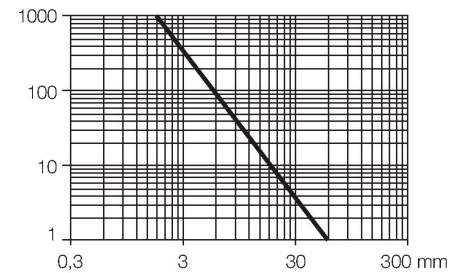
Functional principle

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

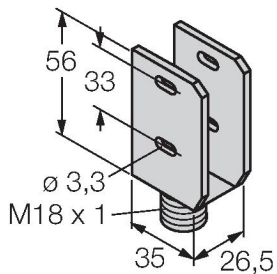
Excess gain indication	LED, yellow, flashing
Tests/approvals	
MTTF	293 years acc. to SN 29500 (Ed. 99) 40 °C
Approvals	CE



Accessories

SMBQS30Y

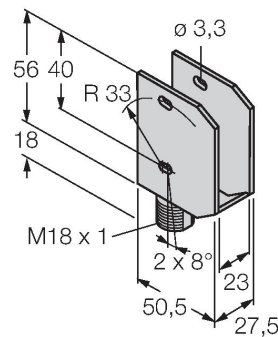
3002811



Protective housing, stainless steel, for
QS30 series

SMBQS30YL

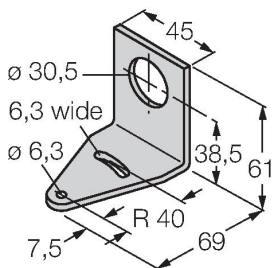
3072741



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

SMB30A

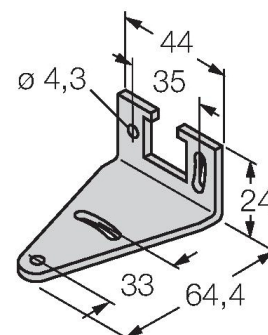
3032723



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

SMBQS30L

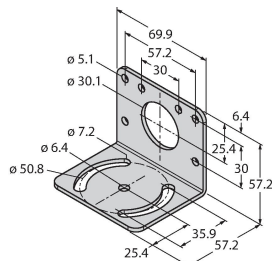
3002809



Mounting bracket, stainless steel, for
QS30 series

SMB30MM

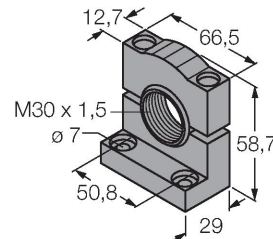
3027162



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

SMB30SC

3052521



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