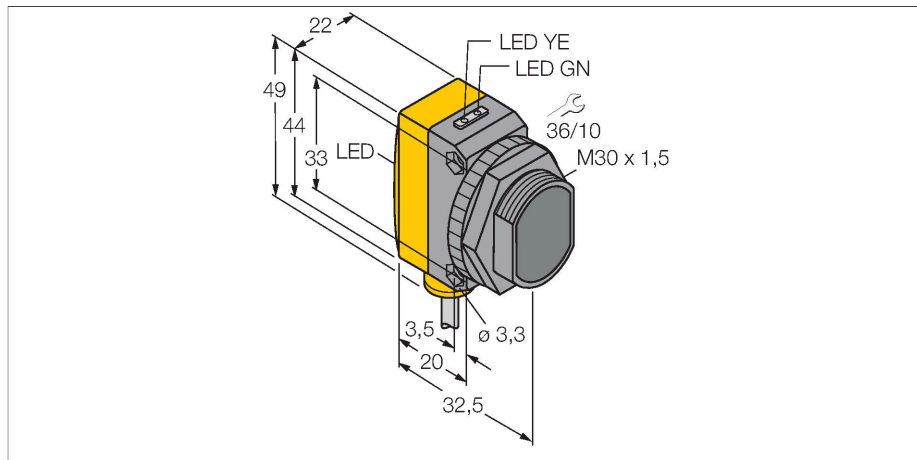


# QS30EXQPMA

## Photoelectric Sensor – Opposed Mode Sensor (Emitter)



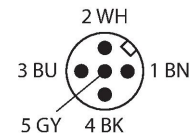
### Technical data

Type	QS30EXQPMA
ID no.	3072062
<b>Optical data</b>	
Function	Opposed mode sensor
Operating mode	Emitter
Light type	IR
Wavelength	875 nm
Range	0...213000 mm
Operating voltage	10...30 VDC
No-load current	≤ 70 mA
Readiness delay	≤ 100 ms
Response time typical	< 30 ms
<b>Mechanical data</b>	
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 with connector, M12 × 1, 0.15 m, PUR
Number of cores	5
Ambient temperature	-20...+60 °C
Protection class	IP67
Power-on indication	LED, Green
Excess gain indication	LED
<b>Tests/approvals</b>	
MTTF	402 years acc. to SN 29500 (Ed. 99) 40 °C
Approvals	CE

### Features

- Cable with male end M12 × 1, 5-pin, PUR, 150 mm
- Protection class IP67
- LED all-round visible
- Selectable operating frequency, protection against crosstalk
- Emitter LED, switchable

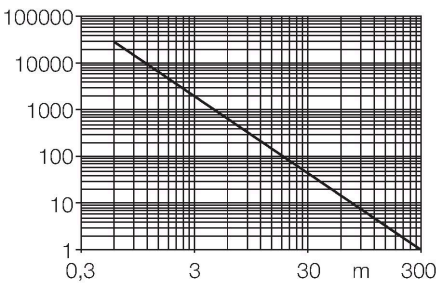
### Wiring diagram



### Functional principle

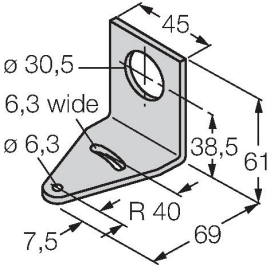
Opposed mode sensors consist of an emitter and receiver. They are installed opposite to each other so that the light from the emitter is aimed directly at the receiver. When an object interrupts or weakens the light beam, the sensor switches. Large distance operation is possible due to an excellent light/dark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

Excess gain curve  
Excess gain in relation to the distance



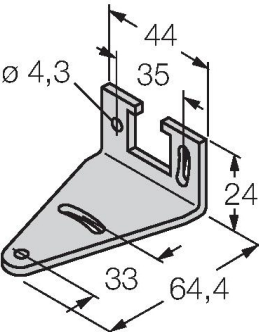
Accessories

SMB30A 3032723



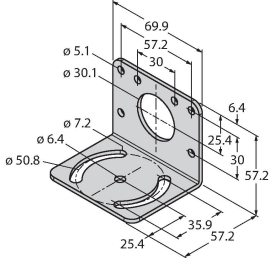
Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread

SMBQS30L 3002809



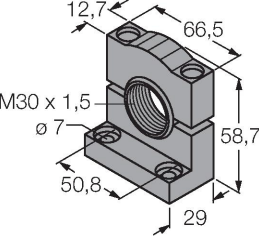
Mounting bracket, stainless steel, for QS30 series

SMB30MM 3027162



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

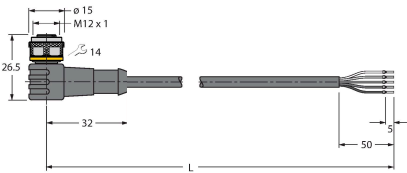
SMB30SC 3052521



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

Accessories

Dimension drawing Type ID no.



WKC4.5T-2/TEL 6625028 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](http://www.turck.com)



RKC4.5T-2/TEL 6625016 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](http://www.turck.com)