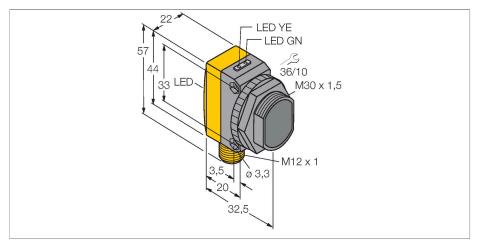
# QS30EQ | 19-01-2022 02-21 | Technical modifications reserved

# QS30EQ Photoelectric Sensor – Opposed Mode Sensor (Emitter)





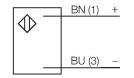
### Technical data

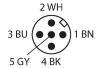
Туре	QS30EQ		
ID	3073082		
Optical data			
Function	Opposed mode sensor		
Operating mode	Emitter		
Light type	IR		
Wavelength	875 nm		
Range	060000 mm		
Electrical data			
Operating voltage	1030 VDC		
Residual ripple	< 10 % U <sub>ss</sub>		
No-load current	≤ 70 mA		
Short-circuit protection	yes		
Reverse polarity protection	yes		
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, Acrylic		
Electrical connection	Connector, M12 × 1, PVC		
Number of cores	5		
Ambient temperature	-20+70 °C		
Protection class	IP67		
Power-on indication	LED, Green		
Error indication	LED, green		

# **Features**

- Male M12 × 1, 5-pin
- ■Protection class IP67
- ■LED all-round visible
- Operating voltage: 10...30 VDC

# Wiring diagram





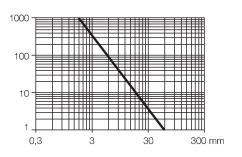
# Functional principle

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.

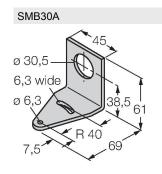
Excess gain curve Excess gain in relation to the distance

# Technical data

Excess gain indication	LED
Tests/approvals	
MTTF	402 years acc. to SN 29500 (Ed. 99) 40 °C
Approvals	CE

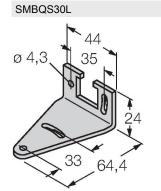


## Accessories

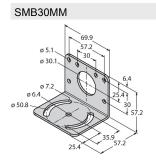


Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread

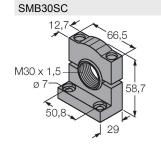
3032723



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



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

3052521

## Accessories

Dimension drawing	Туре	ID	
-015 -015 -015 -015 -015 -015 -015 -015	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
M12x1 015 55 14	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