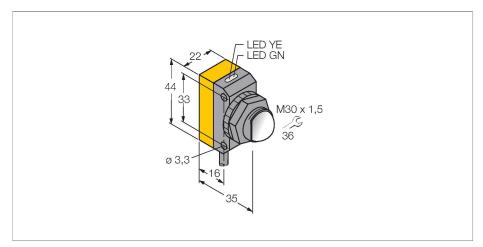


QS30EX Photoelectric Sensor – Opposed Mode Sensor (Emitter)





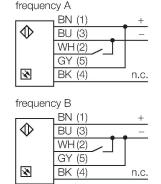
Technical data

Туре	QS30EX
ID no.	3071559
Optical data	
Function	Opposed mode sensor
Operating mode	Emitter
Light type	IR
Wavelength	875 nm
Range	0213000 mm
Electrical data	
Operating voltage	1030 VDC
Residual ripple	< 10 % U _{ss}
No-load current	≤ 70 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Readiness delay	≤ 100 ms
Response time typical	< 30 ms
Mechanical data	
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, 2 m, PVC
Number of cores	4
Core cross-section	0.5 mm ²
Ambient temperature	-20+60 °C
Protection class	IP67
Special features	Encapsulated

Features

- ■Cable, PVC, 2 m
- ■Protection class IP67
- ■LED all-round visible
- Selectable operating frequency, protection against crosstalk
- Emitter LED, switchable
- Operating voltage: 10...30 VDC

Wiring diagram



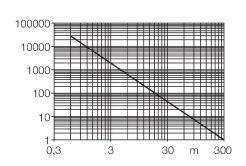
Functional principle

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

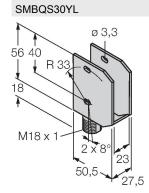
Technical data

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

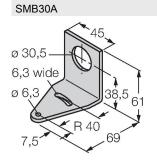


Accessories

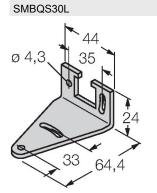
SMBQS30Y 56 33 Ø 3,3 M18 x 1 35 26,5 3002811 Protective housing, stainless steel, for QS30 series



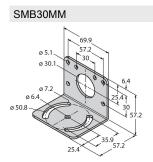
3072741 Protective housing with safety glas panel, stainless steel, for QS30 series



3032723 Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread



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