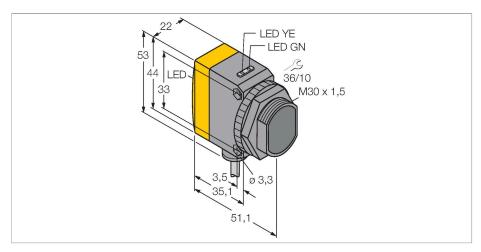


QS30VR3LP Photoelectric Sensor – Retroreflective Sensor with Polarizing Filter



Technical data

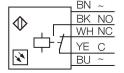
Туре	QS30VR3LP
ID	3072545
Optical data	
Function	Retroreflective Sensor
Operating mode	Polarized
Reflector included in delivery	no
Light type	Red polarized
Wavelength	630 nm
Range	08000 mm
Electrical data	
Operating voltage	12250 VDC
Operating voltage	24250 VAC
No-load current	≤ 35 mA
Output function	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 mm²
Ambient temperature	-40+70 °C



Features

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

Wiring diagram



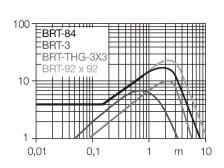
Functional principle

Retro-reflective sensors incorporate emitter and receiver in the same compact housing. The light beam of the emitter is directed towards a reflector which returns the light back to the receiver. An object is detected when it interrupts this beam. Retro-reflective sensors incorporate some of the advantages of opposed mode sensors (good contrast and high excess gain). Further it is merely required to install and wire a single device. A smaller sensing range and susceptibility of devices without polarisation filter can be of disadvantage when shiny objects have to be detected.

Excess gain curve
Excess gain in relation to the distance

Technical data

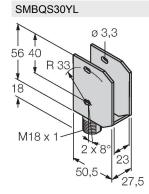
Protection class	IP67
Power-on indication	LED, Green
Switching state	LED, Yellow
Excess gain indication	LED, yellow, flashing
Tests/approvals	
Approvals	CE



Accessories

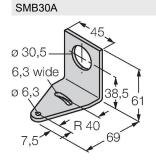
SMBQS30Y 56 33 M18 x 1 35 26,5

3002811 Protective housing, stainless steel, for QS30 series



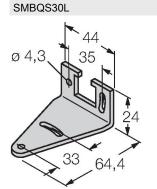
Protective housing with safety glas panel, stainless steel, for QS30 series

3072741

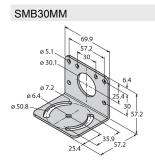


Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread

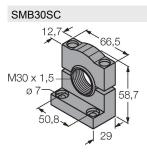
3032723



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



TURCK

Accessories

Dimension drawing

Type

BRT-84

3058979

Round reflector, reflection coefficient
1.4, material acrylic, ambient
temperature -20 ... +60 °C

