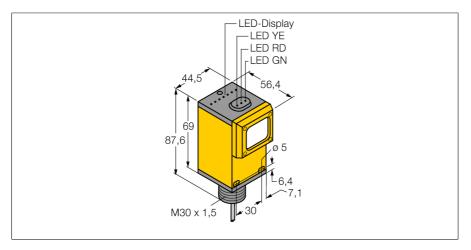


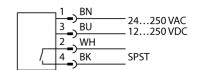
Photoelectric Sensor Retroreflective Sensor with Polarizing Filter Q45BW13LP W/30





- Cable, PVC, 2 m
- Protection class IP67
- Sensitivity adjusted via potentiometer
- Operating voltage: 12...250 VDC or 24...250 VAC
- Relay output, NO (SPST)
- Light or dark operation, adjusted via selector switch

Wiring Diagram



Functional principle

Retro-reflective sensors incorporate emitter and receiver in a single 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

Туре	Q45BW13LP W/30		
ID	3063175		
Optical data			
Function	Retroreflective Sensor		
Operating mode	Polarized		
Reflector included in delivery	yes		
Light type	Red polarized		
Wavelength	680 nm		
Range	1506000 mm		
Electrical data			
Operating voltage U _B	12250 VDC		
Operating voltage U _B	24250 VAC		
Output function	NO contact, Relay output		
Switching frequency	NO contact, Relay output ≤ 33 Hz		
Readiness delay	≤ 33 HZ ≤ 100 ms		
Response time typical	< 2 ms		
Setting option	Potentiometer		
Setting Option	i oteritionietei		
Mechanical data			
Design	Rectangular, Q45		
Dimensions	Ø 30 x 56.4 x 44.5 x 87.6 mm		
Housing material	Plastic, PBT		
Lens	plastic, Acrylic	plastic, Acrylic	
Electrical connection	Cable, 9 m, PVC		
Number of cores	4		
Core cross-section	0.34 mm²		
Ambient temperature	-25+55 °C		
Protection class	IP67		
Power-on indication	LED, Green		
I OWGI-OH HUICAUOH	LLD, GIEGH		

LED, Yellow

LED, green

LED, red

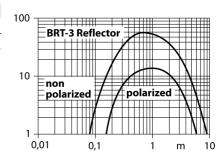
Switching state

Error indication

Excess gain indication



Approvals	CE, cURus, CSA	
MTTF	67 years acc. to SN 29500 (Ed. 99) 40 °C	
Tests/approvals		





Accessories

Type code	Ident no.		Dimension drawing
SMB30A	3032723	Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread	o 30,5 6,3 wide o 6,3 7,5 R 40 69
SMB30FAM10	3011185	Mounting bracket, stainless steel, for M10 x 1.5 thread, thread length 30 mm	78.4 60.3 19 19 19 19 19 19 19 19 19 19
SMB30SC	3052521	Mounting bracket, PBT black, for sensors with 30 mm thread rotatable	12.7 66.5 M30 x 1,5 07 50.8 29

Function accessories

Type code	Ident no.		Dimension drawing
BRT-3	3016164	Round reflector, reflection coefficient 1.0, material acrylic, ambient temperature -20+60 °C	Ø 5.2 [0.21] 7 [0.28] Ø 81 [3.19]