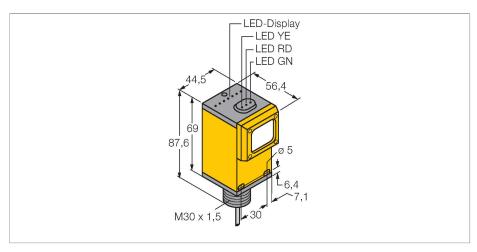


Q45VR3LP W/30' Photoelectric Sensor – Retroreflective Sensor with Polarizing Filter





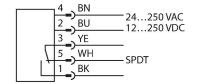
Туре	Q45VR3LP W/30'
ID	3056004
Optical data	
Function	Retroreflective Sensor
Operating mode	Polarized
Reflector included in delivery	yes
Light type	Red polarized
Wavelength	680 nm
Range	1506000 mm
Electrical data	
Operating voltage	12250 VDC
Operating voltage	24250 VAC
Output function	Complementary contact, Relay output
Switching frequency	≤ 33 Hz
Readiness delay	≤ 100 ms
Response time typical	< 15 ms
Setting option	Potentiometer
Mechanical data	
Design	Rectangular, Q45
Dimensions	Ø 30 x 56.4 x 44.5 x 87.6 mm
Housing material	Plastic, Thermoplastic material
Lens	plastic, Acrylic
Electrical connection	Cable, 9 m, PVC
Number of cores	5
Core cross-section	0.34 mm²
Ambient temperature	-25+55 °C



Features

- Cable, PVC, 2 m
- ■Protection class IP67
- Connection cable, 9 m
- ■Protection class IP67
- Operating voltage: 12...250 VDC or 24... 250 VAC
- Relay output, changeover (SPDT)
- Light or dark operation, adjusted via selector switch

Wiring diagram



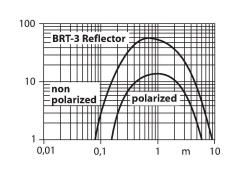
Functional principle

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.

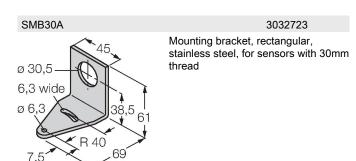
Excess gain curve Excess gain in relation to the distance

Technical data

Protection class	IP67
Special features	keep/defer
Power-on indication	LED, Green
Switching state	LED, Yellow
Error indication	LED, green
Excess gain indication	LED, red
Tests/approvals	
MTTF	67 years acc. to SN 29500 (Ed. 99) 40 °C
Approvals	CE, cURus, CSA



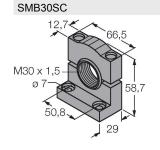
Accessories





Mounting bracket, stainless steel, for M10 x 1.5 thread, thread length 30 mm

3011185



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

3052521

Accessories

