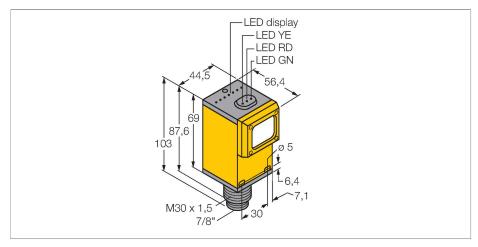
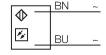
Q453EQ Photoelectric Sensor – Opposed Mode Sensor (Emitter)



Features

- Male connector 7/8"
- ■Protection class IP67
- Operating voltage: 12...250 VDC or 24... 250 VAC

Wiring diagram



Technical data

Switching state

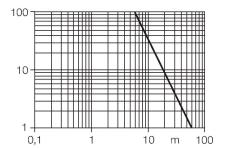
Excess gain indication

Туре	Q453EQ
ID	3054328
Optical data	
Function	Opposed mode sensor
Operating mode	Emitter
Light type	IR
Wavelength	880 nm
Range	060000 mm
Electrical data	
Operating voltage	12250 VDC
Operating voltage	24250 VAC
DC rated operational current	≤ 5000 mA
No-load current	≤ 50 mA
Switching frequency	0.033 kHz
Readiness delay	≤ 0 ms
Mechanical data	
Design	Rectangular, Q45
Dimensions	Ø 30 x 103 x 56.4 x 44.5 mm
Housing material	Plastic, Thermoplastic material
Lens	acrylic, Acrylic
Electrical connection	Connector, 7/8", PVC
Number of cores	3
Ambient temperature	-40+70 °C
Protection class	IP67
Power-on indication	LED, Green



Functional principle

Opposed mode sensors consist of an emitter and receiver. They are installed opposite 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. Opposed mode sensors are the most reliable photoelectric sensors for detection of opaque targets. An excellent contrast between light and dark conditions and an extremly high excess gain are typical of this sensing mode, thus allowing operation over larger distances and under difficult conditions. Excess gain curve Excess gain in relation to the distance



LED, Yellow

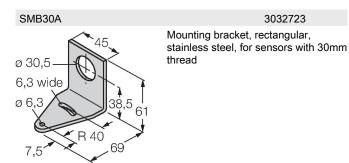
LED, red

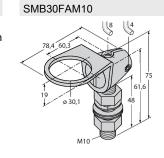


Technical data

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

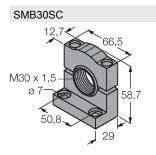
Accessories





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