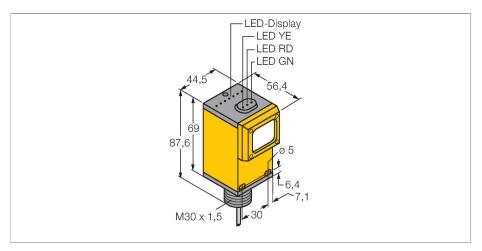


Q459E W/30 Photoelectric Sensor - Opposed Mode Sensor (Emitter)



Technical data

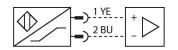
Туре	Q459E W/30
ID no.	3040813
Optical data	
Function	Opposed mode sensor
Operating mode	Emitter
Light type	IR
Wavelength	880 nm
Range	06000 mm
Electrical data	
Operating voltage	515 VDC
No-load current	≤ 50 mA
Readiness delay	≤ 0 ms
Mechanical data	
Design	Rectangular, Q45
Dimensions	Ø 30 x 56.4 x 44.5 x 87.6 mm
Housing material	Plastic, Thermoplastic material
Lens	plastic, Acrylic
Electrical connection	Cable, 9 m, PVC
Number of cores	2
Core cross-section	0.34 mm²
Ambient temperature	-40+70 °C
Protection class	IP67
Excess gain indication	LED
Tests/approvals	
MTTF	67 years acc. to SN 29500 (Ed. 99) 40 °C
Approvals	CE, FM, CSA



Features

- Cable, PVC, 2 m
- ■Protection class IP67
- Operating voltage: 5...15 VDC
- ■acc. to 60947-5-6 (NAMUR)

Wiring diagram



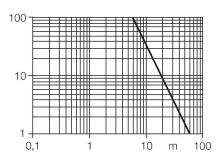
Functional principle

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

Technical data

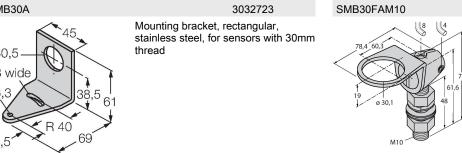
Ex ia IIC T5 Ignition protection category

KEMA 03ATEX 1441 X Ex approval acc. to conformity certificate



Accessories

3032723 SMB30A Mounting bracket, rectangular, thread ø 30,5 6,3 wide



3011185 Mounting bracket, stainless steel, for M10 x 1.5 thread, thread length 30

SMB30SC M30 x 1,5

3052521 Mounting bracket, PBT black, for sensors with 30 mm thread, rotatable

Accessories

Dimension drawing 89

Type ID no. IM1-22EX-R 7541231

Isolating switching amplifier, 2-channel; 2 relay outputs; input NAMUR signal; selectable ON/OFF mode for wirebreak and short-circuit monitoring; adjustable output mode (NO / NC mode); removable terminal blocks; width 18 mm; universal power supply unit