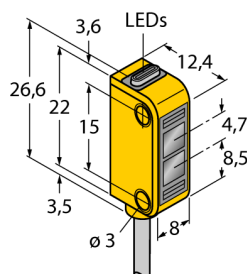


Photoelectric Sensor

Opposed Mode Sensor (Emitter)

Miniature Sensor

Q126E W/30



Type	Q126E W/30
ID	3072142

Optical data	
Function	Opposed mode sensor
Operating mode	Emitter
Light type	Red
Wavelength	640 nm
Range	0...2000 mm

Electrical data	
Operating voltage U_s	10...30 VDC
Residual ripple	< 10 % U_s
Short-circuit protection	yes
Reverse polarity protection	yes
Readiness delay	≤ 120 ms
Response time typical	< 1.3 ms

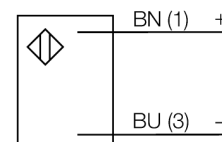
Mechanical data	
Design	Rectangular, Q12
Housing material	Plastic, Thermoplastic material, Yellow
Lens	plastic, Polycarbonate
Electrical connection	Cable, 9 m, PVC
Number of cores	2
Core cross-section	0.34 mm ²
Ambient temperature	-20...+55 °C
Protection class	IP67

Power-on indication	LED, Green
Excess gain indication	LED, yellow

Tests/approvals	
MTTF	145 years acc. to SN 29500 (Ed. 99) 40 °C
Approvals	CE, cURus

- Cable, PVC, 9 m
- Protection class IP67
- LED all-round visible
- Operating voltage: 10...30 VDC

Wiring Diagram

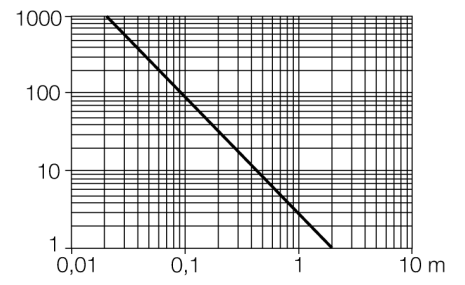


Functional principle

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 extremely 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



Accessories

Type code	Ident no.		Dimension drawing
SMBQ12A	3074341	Mounting bracket; material VA 1.4401, for photoelectric sensor, Q12 series	
SMBQ12T	3073722	Mounting bracket; material VA 1.4401, for photoelectric sensor, Q12 series	