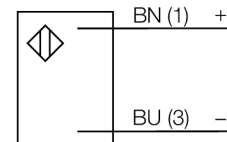


**Photoelectric sensor
opposed mode sensor (emitter)
miniature sensor
Q126ECR**



- Cable, PVC, 2 m
- Protection class IP67
- Chemical-proof PFA sheath
- LED all-round visible
- Operating voltage: 10...30 VDC

Wiring diagram

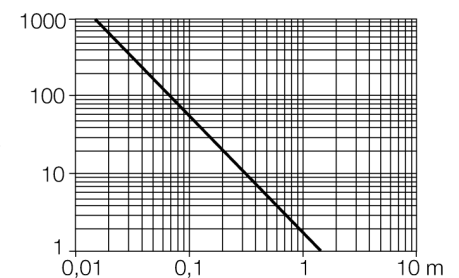


Functional principle

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

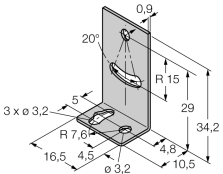
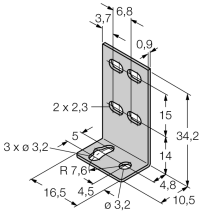
Excess gain in relation to the distance



Type code	Q126ECR
Ident no.	3076488
Operating mode	opposed mode sensor (emitter)
Light type	red
Wavelength	640 nm
Range	0...1500 mm
Ambient temperature	-20...+55 °C
Operating voltage	10...30VDC
Residual ripple	< 10 % U _s
Short-circuit protection	yes
Reverse polarity protection	yes
Readiness delay	≤ 120 ms
Design	rectangular, Q12
Dimensions	22.6 x 12.5 x 28.8 mm
Housing material	plastic, PFA, yellow
Lens	plastic, polycarbonate
Connection	cable, PVC
Cable length	2 m
Cable cross section	2 x 0.34 mm ²
Protection class	IP67
Power-on indication	LED green
Excess gain indication	LED yellow

**Photoelectric sensor
opposed mode sensor (emitter)
miniature sensor
Q126ECR**

Accessories

Type code	Ident no.	Description	Dimension drawing
SMBQ12A	3074341	Mounting bracket; material VA 1.4401, for photoelectric sensor, Q12 series	 <p>Technical drawing of the SMBQ12A mounting bracket. It shows a perspective view of a rectangular plate with a 20-degree angle. Dimensions include: 0.9 mm thickness, 29 mm height, 16.5 mm width, 4.5 mm offset, 10.5 mm base width, 4.8 mm offset, 3 x ø 3.2 mm holes, 5 mm offset, R 7.6 mm radius, R 15 mm radius, and a 20-degree angle.</p>
SMBQ12T	3073722	Mounting bracket; material VA 1.4401, for photoelectric sensor, Q12 series	 <p>Technical drawing of the SMBQ12T mounting bracket. It shows a perspective view of a rectangular plate with two circular cutouts. Dimensions include: 6.8 mm height, 0.9 mm thickness, 15 mm height between cutouts, 2 x 2.3 mm cutouts, 16.5 mm width, 4.5 mm offset, 10.5 mm base width, 4.8 mm offset, 3 x ø 3.2 mm holes, 5 mm offset, R 7.6 mm radius, 3.7 mm offset, and 6.8 mm height.</p>