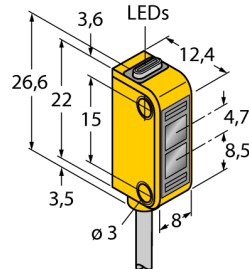


**Photoelectric sensor  
opposed mode sensor (emitter)  
miniature sensor  
Q126E**



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

**Wiring diagram**

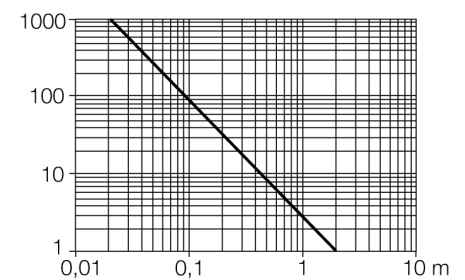


**Functional principle**

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**

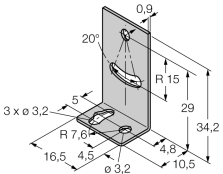
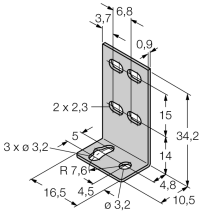
Excess gain in relation to the distance



<b>Type code</b>	Q126E
Ident no.	3072140
<b>Operating mode</b>	opposed mode sensor (emitter)
Light type	red
Wavelength	640 nm
Range	0...2000 mm
Ambient temperature	-20...+55 °C
<b>Operating voltage</b>	10...30VDC
Residual ripple	< 10 % U <sub>s</sub>
Short-circuit protection	yes
Reverse polarity protection	yes
Readiness delay	≤ 120 ms
<b>Design</b>	rectangular, Q12
Dimensions	12.4 x 8 x 26.6 mm
Housing material	plastic, Elastomere, yellow
Lens	plastic, polycarbonate
Connection	cable, PVC
Cable length	2 m
Cable cross section	2 x 0.34 mm <sup>2</sup>
Protection class	IP67
MTTF	145 years acc. to SN 29500 (Ed. 99) 40 °C
<b>Power-on indication</b>	LED green
Excess gain indication	LED yellow

**Photoelectric sensor  
opposed mode sensor (emitter)  
miniature sensor  
Q126E**

**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 holes. Dimensions include: 6.8 mm height, 0.9 mm thickness, 15 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, 2 x 2.3 mm holes, 3.7 mm offset, and 6.8 mm height.</p>