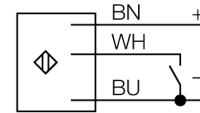


**Photoelectric sensor
laser emitter
QS186LE11**

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

Wiring diagram

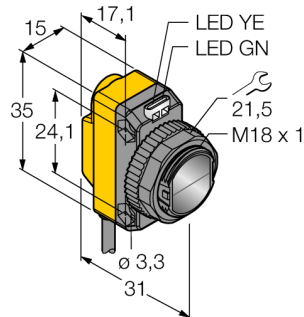
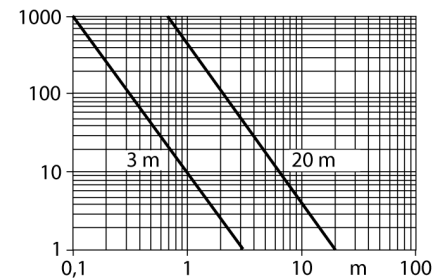


Functional principle

Opposed mode sensors consist of an emitter and receiver. They are installed opposite to 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. The excellent light/dark contrast and the high excess gain allow operation over larger distances and under difficult conditions.

Excess gain curve

Excess gain in relation to the distance (type 6EB/RB)



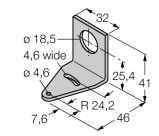
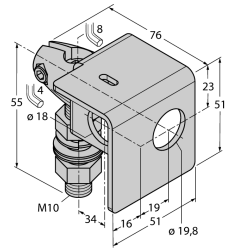
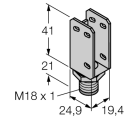
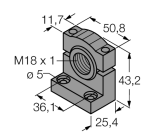
Type code	QS186LE11
Ident no.	3002756
Operating mode	Opposed mode sensor (laser emitter)
Light type	red
Wavelength	650 nm
Laser class	▲ 1
Range	0...2000 mm
Ambient temperature	-10...+50 °C
Operating voltage	10...30VDC
Residual ripple	< 10 % U _{in}
DC rated operational current	≤ 100 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Readiness delay	≤ 250 ms
Readiness delay	≤ 0.25 s
Design	rectangular, QS18
Dimensions	31 x 15 x 35 mm
Housing material	plastic, ABS
Lens	plastic, acrylic
Connection	cable, PVC
Cable length	2 m
Cable cross section	4 x 0.35 mm ²
Protection class	IP67
MTTF	530 years acc. to SN 29500 (Ed. 99) 40 °C
Power-on indication	LED green

Photoelectric sensor
laser emitter
QS186LE11

TURCK

Industrial
Automation

Accessories

Type code	Ident no.	Description	Dimension drawing
SMB18A	3033200	Mounting bracket, stainless steel, for sensors with 18 mm thread	 <p>Technical drawing of the SMB18A mounting bracket. Dimensions include: total width 32 mm, hole diameter $\phi 18.5$ mm, hole offset 4.6 mm from the left edge, hole diameter $\phi 4.6$ mm, hole offset 25.4 mm from the bottom edge, hole offset 7.6 mm from the right edge, and a radius of R 24.2 mm.</p>
SMB18AFAM10	3012558	Mounting bracket, material VA 1.4401, for M10 x 1.5 thread, thread length 18 mm	 <p>Technical drawing of the SMB18AFAM10 mounting bracket. Dimensions include: total width 76 mm, hole diameter $\phi 18$ mm, hole offset 55 mm from the left edge, hole offset 4 mm from the top edge, hole offset 8 mm from the right edge, hole offset 23 mm from the top edge, hole offset 34 mm from the bottom edge, hole offset 16 mm from the right edge, hole offset 19 mm from the bottom edge, and hole offset $\phi 19.8$ mm from the right edge.</p>
SMBQS18A	3069721	Mounting bracket, stainless steel, for 18 mm thread	 <p>Technical drawing of the SMBQS18A mounting bracket. Dimensions include: total width 41 mm, hole diameter $\phi 18$ mm, hole offset 21 mm from the left edge, hole offset 24.9 mm from the bottom edge, and hole offset 19.4 mm from the right edge.</p>
SMB18SF	3052519	Mounting bracket, PTB black steel, for sensors with 18 mm thread	 <p>Technical drawing of the SMB18SF mounting bracket. Dimensions include: total width 50.8 mm, hole diameter $\phi 18$ mm, hole offset 11.7 mm from the left edge, hole offset $\phi 5$ mm from the top edge, hole offset 36.1 mm from the bottom edge, hole offset 43.2 mm from the right edge, and hole offset 25.4 mm from the bottom edge.</p>