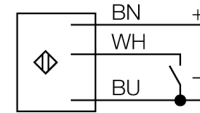


**Photoelectric sensor
laser emitter
QS186LE14**



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

Wiring diagram

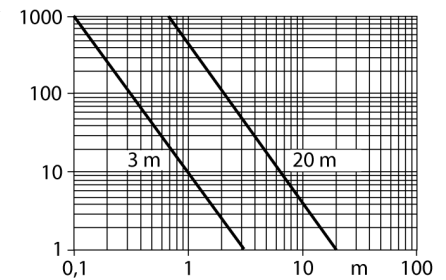


Functional principle

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)



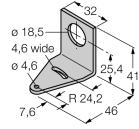
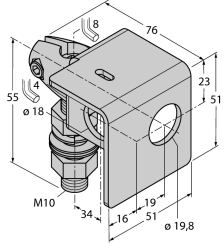
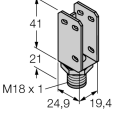
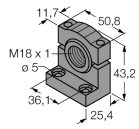
Type code	QS186LE14
Ident no.	3002788
Operating mode	Opposed mode sensor (laser emitter)
Light type	red
Wavelength	650 nm
Laser class	▲ 1
Range	0...5000 mm
Ambient temperature	-10...+50 °C
Operating voltage	10...30VDC
Residual ripple	< 10 % U _{in}
DC rated operational current	≤ 100 mA
Short-circuit 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
QS186LE14

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: 32 mm width, 4.6 mm hole diameter, 4.6 mm hole spacing, 25.4 mm height, 41 mm total height, 7.6 mm offset, R 24.2 radius, and 46 mm base width.</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: 76 mm width, 23 mm height, 51 mm total height, 19 mm hole diameter, 16 mm offset, 34 mm offset, 5 mm hole diameter, 55 mm total height, 8 mm hole diameter, and M10 thread.</p>
SMBQS18A	3069721	Mounting bracket, stainless steel, for 18 mm thread	 <p>Technical drawing of the SMBQS18A mounting bracket. Dimensions include: 41 mm height, 21 mm hole diameter, 24.9 mm offset, 19.4 mm total height, and M18 x 1 thread.</p>
SMB18SF	3052519	Mounting bracket, PTB black steel, for sensors with 18 mm thread	 <p>Technical drawing of the SMB18SF mounting bracket. Dimensions include: 11.7 mm hole diameter, 50.8 mm width, 43.2 mm height, 36.1 mm offset, 25.4 mm base width, and M18 x 1 thread.</p>