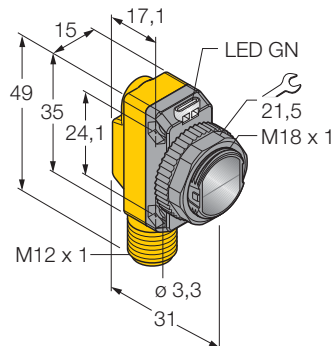


**photoelectric sensor
laser emitter
QS186LE11Q8**

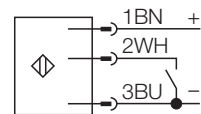
TURCK

Industrial
Automation



- Operating voltage 10...30 VDC
- LED visible from all sides
- M12 x 1 male connector
- Laser class 1
- Vertical line profile
- 330 x 7 mm at 1 m distance

Wiring diagram



Type	QS186LE11Q8
Ident-No.	3002757
Operating mode	opposed mode sensor (emitter)
Light type	red
Wavelength	650 nm
Laser class	1 (EN 60825, IEC 60825)
Range	0... 2000 mm
Ambient temperature	-10...+ 50°C
Operating voltage	10... 30 VDC
DC rated operational current	≤ 100 mA
No-load current I_0	≤ 35 mA
Readiness delay	≤ 0.25 s
Housing	rectangular, QS18
Dimensions	31x 15x 35mm
Housing material	Plastic, ABS
Lens	plastic, acrylic
Electrical connection	Connectors, M12 x 1
Protection class	IP67
Operating voltage	LED green

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)