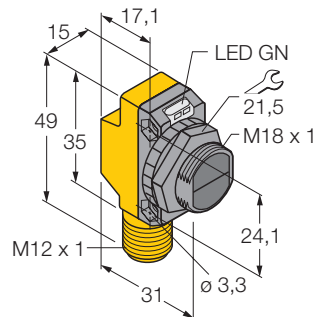


**photoelectric sensor  
laser emitter  
QS186LE10Q8**

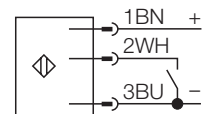
**TURCK**

Industrial  
Automation



- Operating voltage 10...30 VDC
- LED visible from all sides
- M12 x 1 male connector
- laser class 1
- round shaped beam profile
- diameter 40 mm at 1m distance

**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 6EB/RB)

<b>Type</b>	QS186LE10Q8
Ident-No.	3070255
<b>Operating mode</b>	opposed mode sensor (emitter)
Light type	red
Wavelength	650 nm
Laser class	1 (EN 60825, IEC 60825)
Max. sensing range [mm]	0... 5000 mm
Ambient temperature	-10...+ 50 °C
<b>Operating voltage</b>	10... 30VDC
DC rated operational current	≤ 100 mA
No-load current $I_0$	≤ 35 mA
Short-circuit protection	yes / cyclic
Reverse polarity protection	yes
Readiness delay	≤ 1.5 s
<b>Housing</b>	rectangular, QS18
Dimensions	31 x 15 x 35 mm
Housing material	plastic, ABS
Lens	plastic, acrylic
Connection	Connectors, M12 x 1
Degree of protection	IP67
<b>Operating voltage display</b>	LED green