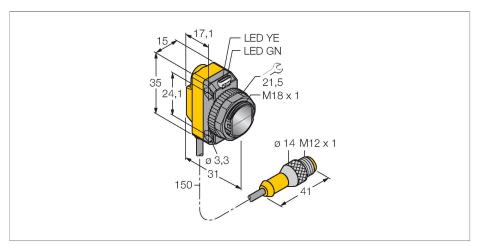


# QS186LE10Q5 Photoelectric Sensor – Laser Emitter



## Technical data

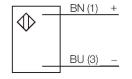
Туре	QS186LE10Q5
ID no.	3070256
Optical data	
Function	Proximity switch
Operating mode	Convergent
Light type	Red
Wavelength	650 nm
Range	043 mm
Electrical data	
Operating voltage	1030 VDC
Residual ripple	< 10 % U <sub>ss</sub>
DC rated operational current	≤ 100 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Readiness delay	≤ 100 ms
Response time typical	< 0.6 ms
Setting option	Potentiometer
Mechanical data	
Design	Rectangular with thread, QS18
Dimensions	Ø 18 x 31 x 15 x 35 mm
Housing material	Plastic, ABS
Lens	plastic, Acrylic
Electrical connection	Cable with connector, M12 × 1, 0.15 m, PVC
Number of cores	4
Ambient temperature	-20+70 °C
Protection class	IP67

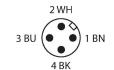


## **Features**

- Cable with male end, M12 × 1, 4-pin, PVC, 150 mm
- ■Protection class IP67
- ■LED all-round visible
- Operating voltage: 10...30 VDC

## Wiring diagram





## Functional principle

Opposed mode sensors consist of an emitter and a receiver. They are installed opposite to each other whereby the emitted light aims 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 objects. The high light/dark contrast and the very high excess gain are typical for this function mode and enable operation over large distances and under difficult conditions.

#### Activation

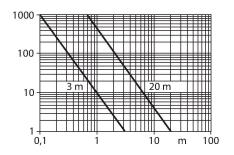
By connecting the control input (PIN 2 WH) to ground (-) the laser beam is turned on. The laser beam is turned off again by feeding 10 ... 30 VDC to the control input or by nonconnecting the wire.



## Technical data

Special features	Laser		
Power-on indication	LED, Green		
Excess gain indication	LED		
Tests/approvals			
MTTF	530 years acc. to SN 29500 (Ed. 99) 40 °C		
Approvals	CE, cURus		

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



## Accessories

SMB18A

3033200

Mounting bracket, rectangular, stainless steel, for sensors with 18 mm thread

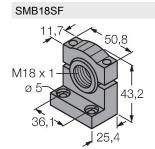
SMB18AFAM10

3012558 Mounting bracket, material VA 1.4401, for M10 x 1.5 thread, thread length 18 mm

M18 x 1 24,9 19,4

Mounting bracket, stainless steel, for 18 mm thread

3069721



3052519 Mounting bracket, PBT black, for sensors with 18 mm thread, rotatable



## Accessories

Dimension drawing	Туре	ID no.	
M12×1 0 15 55 14	RKC4.4T-2/TEL	6625013	Connection cable, female M12, straight, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com
0 15 M12x1 26.5	WKC4.4T-2/TEL	6625025	Connection cable, female M12, angled, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com