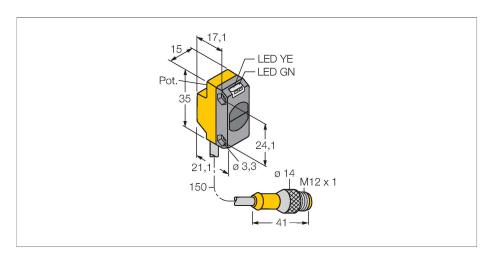


# QS186EBQ5 Photoelectric Sensor – Opposed Mode Sensor (Emitter)



#### Technical data

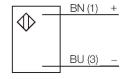
Туре	QS186EBQ5		
ID no.	3064589		
Optical data			
Function	Opposed mode sensor		
Operating mode	Emitter		
Light type	IR		
Wavelength	940 nm		
Range	03000 mm		
Electrical data			
Operating voltage	1030 VDC		
Residual ripple	< 10 % U <sub>ss</sub>		
DC rated operational current	≤ 100 mA		
Short-circuit protection	yes		
Reverse polarity protection	yes		
Readiness delay	≤ 100 ms		
Mechanical data			
Design	Rectangular, QS18		
Dimensions	27.7 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		
Power-on indication	LED, Green		
Excess gain indication	LED		

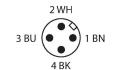


#### **Features**

- 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





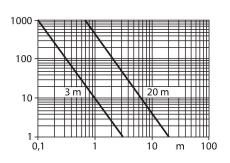
### Functional principle

Opposed mode sensors consist of an emitter and 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)

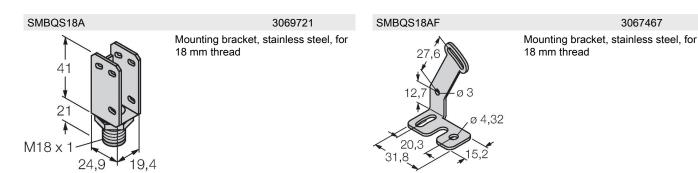
## Technical data

Tests/approvals	
MTTF	530 years acc. to SN 29500 (Ed. 99) 40 °C
Approvals	CE, cURus



3067467

#### Accessories



## Accessories

Dimension drawing	Туре	ID no.	
M12×1 015	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 M12×1 26.5 14	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