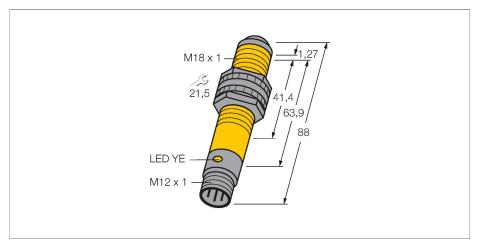


# S186ELDQ Photoelectric Sensor – Laser Emitter



#### Technical data

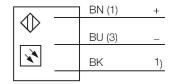
Туре	S186ELDQ	
ID no.	3036393	
Optical data		
Function	Opposed mode sensor	
Operating mode	Laser Emitter	
Light type	Red	
Wavelength	650 nm	
Laser class	<u>A</u> 1	
Beam diameter	(elliptic) 2.5 mm	
Range	015000 mm	
Electrical data		
Operating voltage	1030 VDC	
Residual ripple	< 10 % U <sub>ss</sub>	
No-load current	≤ 35 mA	
Readiness delay	≤ 100 ms	
Mechanical data		
Design	Threaded barrel, S18	
Dimensions	Ø 18 x 88 mm	
Housing material	Plastic, Thermoplastic material	
Lens	plastic, Acrylic	
Electrical connection	Connectors, M12 × 1, PVC	
Number of cores	4	
Ambient temperature	-10+50 °C	
Protection class	IP67 IP69	
Special features	Wash down	
Power-on indication	LED, Green	



### **Features**

- ■M12 × 1 male, 4-pin
- Protection classes IP67/IP69K
- ■Ambient temperature: -10...+50 °C
- ■Operating voltage: 10...30 VDC

## Wiring diagram



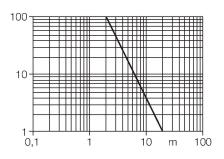
## Functional principle

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 extremly 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

## Technical data

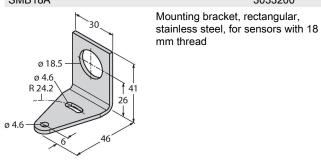
LED

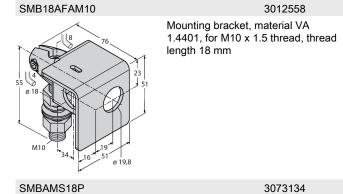
Tests/approvals	
Approvals	CE, UL, CSA

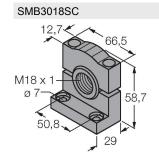


### Accessories

## SMB18A 3033200

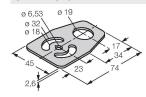






Mounting bracket, PTB black, for sensors with 18 mm thread

3053952



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

### Accessories

Dimension drawing	Туре	ID no.	
M12x1 o15 50 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 M12 x 1 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