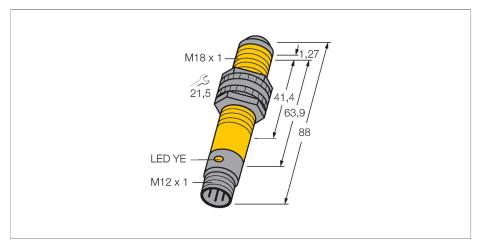


S186ELDQ Photoelectric Sensor – Laser Emitter





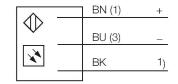
_	0.000		
Туре	S186ELDQ		
ID	3036393		
Optical data			
Function	Opposed mode sensor		
Operating mode	Laser Emitter		
Light type	Red		
Wavelength	650 nm		
Laser class	<u>A</u> 1		
Beam diameter	(elliptic) 2.5 mm		
Range	015000 mm		
Electrical data			
Operating voltage	1030 VDC		
Residual ripple	< 10 % U _{ss}		
No-load current	≤ 35 mA		
Readiness delay	≤ 100 ms		
Mechanical data			
Design	Tube, S18		
Dimensions	Ø 18 x 88 mm		
Housing material	Plastic, Thermoplastic material		
Lens	plastic, Acrylic		
Electrical connection	Connector, 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



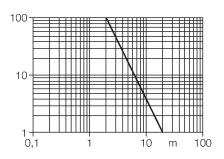
Functional principle

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

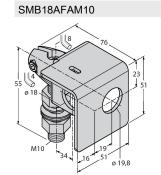
Excess gain indication	LED		
Tests/approvals			

Tests/approvals	
Approvals	CE, UL, CSA

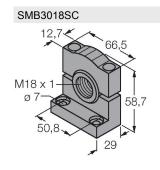


Accessories

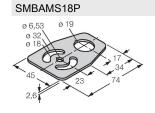
SMB18A 3033200 Mounting bracket, rectangular, stainless steel, for sensors with 18 mm thread



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



3053952 Mounting bracket, PTB black, for sensors with 18 mm thread



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

3073134

Accessories

Dimension drawing	Type	ID	
M12x1 o 15 1/2 14 11.5 +	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
815 M12x1 265 32 32	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