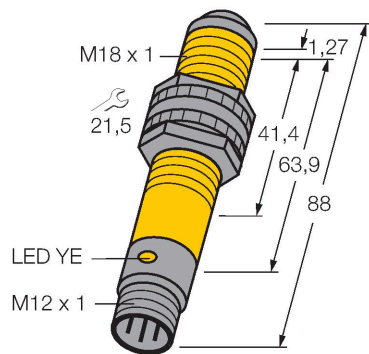


S186ELDQ

Photoelectric Sensor – Laser Emitter



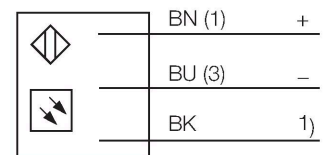
Technical data

Type	S186ELDQ
ID	3036393
Optical data	
Function	Opposed mode sensor
Operating mode	Laser Emitter
Light type	Red
Wavelength	650 nm
Laser class	▲ 1
Beam diameter	(elliptic) 2.5 mm
Range	0...15000 mm
Electrical data	
Operating voltage	10...30 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

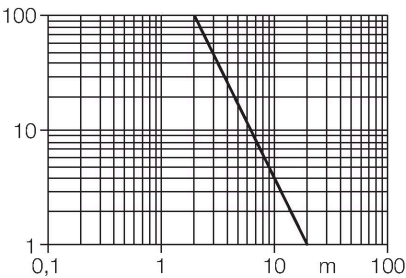


Functional principle

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 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

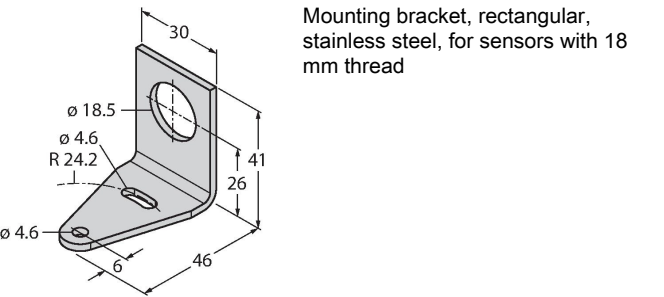
Technical data

Excess gain indication	LED
Tests/approvals	
Approvals	CE, UL, CSA

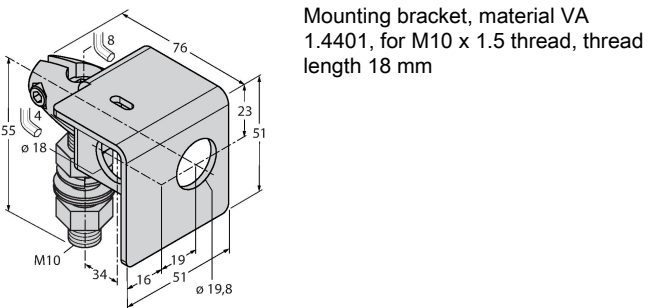


Accessories

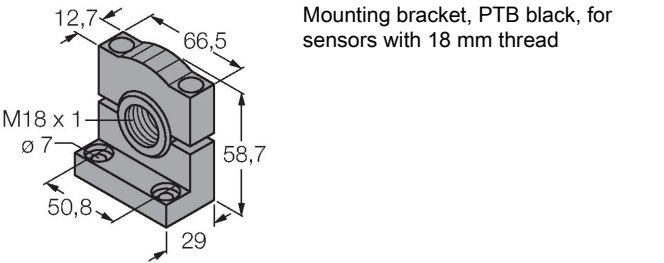
SMB18A	3033200
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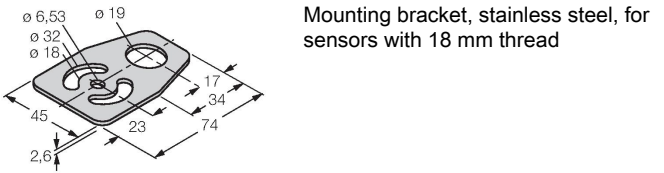
SMB18AFAM10	3012558
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SMB3018SC	3053952
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SMBAMS18P	3073134
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Accessories

Dimension drawing	Type	ID	
	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
	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