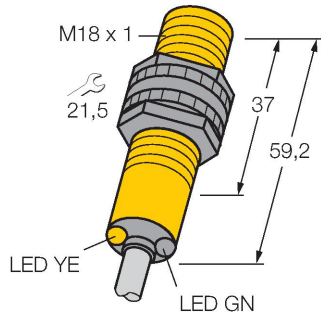


S186ELD W/30

Photoelectric Sensor – Laser Emitter



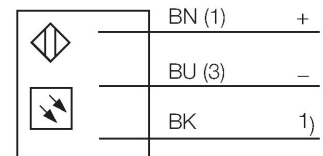
Technical data

Type	S186ELD W/30
ID	3035006
Optical data	
Function	Opposed mode sensor
Operating mode	Laser Emitter
Light type	Red
Wavelength	650 nm
Laser class	▲ 1
Range	0...15000 mm
Electrical data	
Operating voltage	10...30 VDC
Residual ripple	< 10 % U _{ss}
Readiness delay	≤ 100 ms
Mechanical data	
Design	Tube, S18
Dimensions	Ø 18 x 69.5 mm
Housing material	Plastic, Thermoplastic material
Lens	plastic, Polycarbonate
Electrical connection	Cable, 9 m, PVC
Number of cores	2
Core cross-section	0.5 mm ²
Ambient temperature	-10...+70 °C
Protection class	IP67 IP69
Special features	Wash down
Power-on indication	LED, Green
Excess gain indication	LED

Features

- Cable, PVC, 9 m
- 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

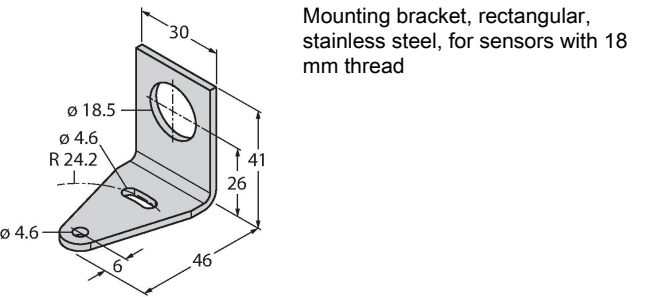
Technical data

Tests/approvals	
Approvals	CE, UL, CSA

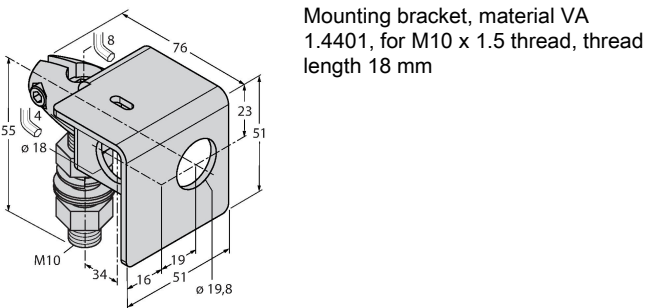


Accessories

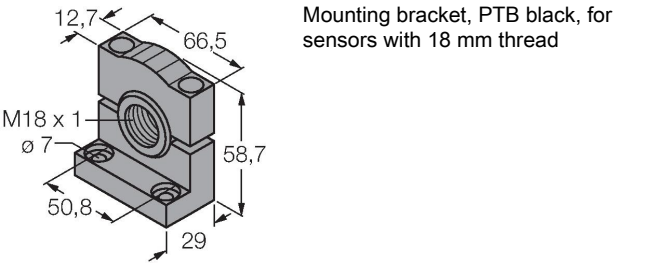
SMB18A 3033200



SMB18AFAM10 3012558



SMB3018SC 3053952



SMBAMS18P 3073134

