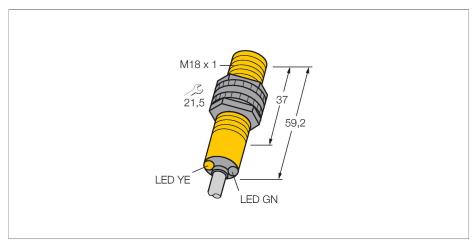


S186ELD W/40' Photoelectric Sensor – Laser Emitter



Technical data

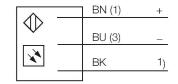
Туре	S186ELD W/40'
ID	3050851
Optical data	
Function	Opposed mode sensor
Operating mode	Emitter
Light type	Red
Wavelength	650 nm
Laser class	<u>A</u> 1
Range	015000 mm
Electrical data	
Operating voltage	1030 VDC
Residual ripple	< 10 % U _{ss}
Readiness delay	≤ 100 ms
Mechanical data	
Design	Threaded barrel, S18
Dimensions	Ø 18 x 69.5 mm
Housing material	Plastic, Thermoplastic material
Lens	plastic, Polycarbonate
Electrical connection	Cable, 12 m, PVC
Number of cores	2
Core cross-section	0.5 mm²
Ambient temperature	-10+70 °C
Protection class	IP67
Special features	Wash down
Power-on indication	LED, Green
Excess gain indication	LED



Features

- Cable, PVC, 12 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 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

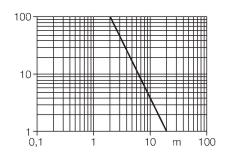


Technical data

Tests/approvals

Approvals

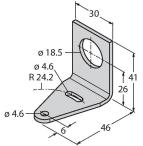
CE, UL, CSA



Accessories

M18 x 1

SMB18A 3033200 Mounting bracket, rectangular,



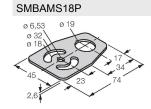
Mounting bracket, rectangular, stainless steel, for sensors with 18 mm thread

M10 34 16 51 0 19,8

SMB18AFAM10

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

SMB3018SC 3053952 12,7 66,5 Mounting bracket, PTB black, for sensors with 18 mm thread



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

3073134