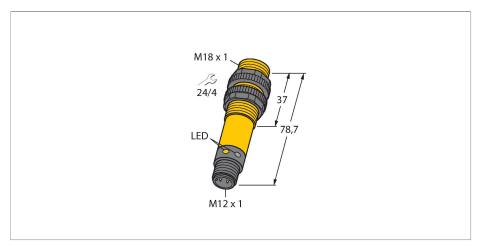


S186EQDP Photoelectric Sensor – Opposed Mode Sensor (Emitter)



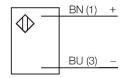
Technical data

Туре	S186EQDP
ID	3044019
Optical data	
Function	Opposed mode sensor
Operating mode	Emitter
Light type	IR
Wavelength	950 nm
Range	020000 mm
Electrical data	
Operating voltage	1030 VDC
Residual ripple	< 10 % U _{ss}
Readiness delay	≤ 100 ms
Mechanical data	
Design	Tube, S18
Dimensions	Ø 18 x 78.7 mm
Housing material	Plastic, Thermoplastic material
Lens	plastic, Polycarbonate
Electrical connection	Cable with connector, M12 × 1, 0.15 m, PVC
Number of cores	4
Ambient temperature	-40+70 °C
Protection class	IP67 IP69
Special features	Wash down
Power-on indication	LED, Green
Excess gain indication	LED
Tests/approvals	
Approvals	CE, UL, CSA

Features

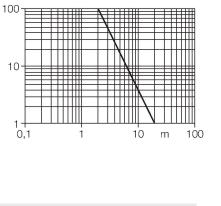
- M12 × 1 male connector, 4-pin ■ Protection classes IP67/IP69K
- ■Ambient temperature: -40 °C...+70 °C
- Operating voltage: 10...30 VDC

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

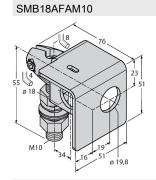


Accessories

SMB18A ø 18.5

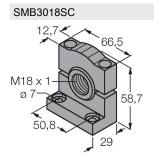
3033200

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



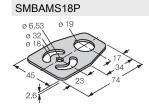
3012558

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



3073134