

S183E Photoelectric Sensor – Opposed Mode Sensor (Emitter)



Technical data

Туре	S183E	
ID no.	3029823	
Optical data		
Function	Opposed mode sensor	
Operating mode	Emitter	
Light type	IR	
Wavelength	950 nm	
Range	020000 mm	
Electrical data		
Operating voltage	20250 VAC	
Readiness delay	≤ 100 ms	
Mechanical data		
Design	Threaded barrel, S18	
Dimensions	Ø 18 mm	
Housing material	Plastic, Thermoplastic material	
Lens	plastic, Polycarbonate	
Electrical connection	Cable, 2 m, PVC	
Number of cores	2	
Core cross-section	0.5 mm ²	
Ambient temperature	-40+70 °C	
Protection class	IP67 IP69	
Special features	Encapsulated Wash down	
Power-on indication	LED, Green	
Excess gain indication	LED	
Tests/approvals		
Approvals	CE, UL, CSA	



Features

Cable, 2 m

Protection class IP67

- Ambient temperature: -40...+70 °C
- Operating voltage: 20...250 VAC

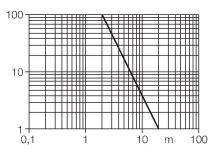
Wiring diagram

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Functional principle

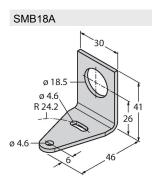
Opposed mode sensors consist of an emitter and receiver. They are installed opposite each other so that the light from the emitter is aimed directly at the receiver. When an object interrupts or weakens the light beam, the sensor switches. Opposed mode sensors are the most reliable photoelectric sensors 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

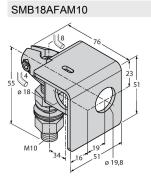




Accessories



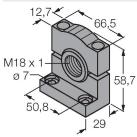
3033200 Mounting bracket, rectangular, stainless steel, for sensors with 18 mm thread



3012558

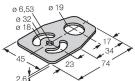
Mounting bracket, material VA 1.4401, for M10 x 1.5 thread, thread length 18 mm

SMB3018SC



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

SMBAMS18P



3073134 Mounting bracket, stainless steel, for sensors with 18 mm thread