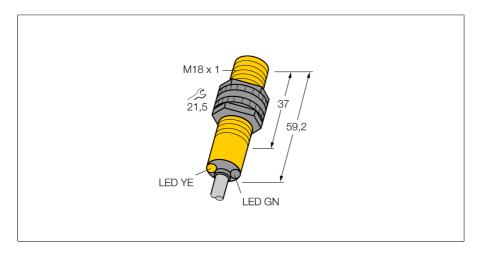


Photoelectric Sensor Opposed Mode Sensor (Emitter) S183E W/50





Туре	S183E W/50
ID	3075565

- Optical data Function Opposed mode sensor Operating mode Emitter Light type IR Wavelength 950 nm 0...20000 mm Range

Electrical data		
Operating voltage U _B	20250VAC	
Readiness delay	≤ 100 ms	
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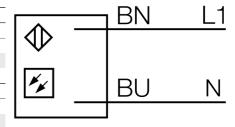
Mechanical data		
Design	Tube, S18	
Dimensions	Ø 18 mm	
Housing material	Plastic, Thermoplastic material	
Lens	plastic, Polycarbonate	
Electrical connection	Cable, 2 m, PVC	
Number of cores	2	
Core cross-section	0.5 mm²	
Ambient temperature	-40+70 °C	
Protection class	IP67	
	IP69	
Special features	Wash down	
Power-on indication	LED, Green	

LED

CE, UL, CSA

- Cable, 2 m
- Protection class IP67
- Ambient temperature: -40...+70 °C
- Operating voltage: 20...250 VAC

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

Excess gain indication

Tests/approvals

Approvals



Accessories

Type code	Ident no.		Dimension drawing
SMB18A	3033200	Mounting bracket, rectangular, stainless steel, for sensors with 18 mm thread	0 18.5 0 4.6 0 4.6 0 4.6
SMB18AFAM10	3012558	Mounting bracket, material VA 1.4401, for M10 x 1.5 thread, thread length 18 mm	M10 34 16 51 e 19.8
SMB3018SC	3053952	Mounting bracket, PTB black, for sensors with 18 mm thread	
			12,7 66,5 M18 x 1 9 7 60,8 29
SMBAMS18P	3073134	Mounting bracket, stainless steel, for sensors with 18 mm thread	06.53 0 22 0 22 0 23 0 24 0 23 74