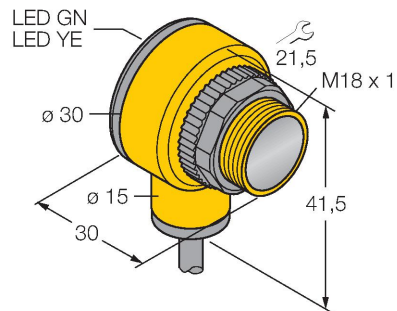


T183E

Photoelectric Sensor – Opposed Mode Sensor (Emitter)



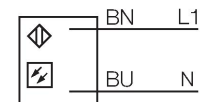
Technical data

Type	T183E
ID no.	3032477
Optical data	
Function	Opposed mode sensor
Operating mode	Emitter
Light type	IR
Wavelength	950 nm
Range	0...20000 mm
Electrical data	
Operating voltage	20...250 VAC
Readiness delay	≤ 100 ms
Mechanical data	
Design	Rectangular with thread, T18
Dimensions	Ø 18 x 30 x 30 x 41.5 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	Chemical-resistant Encapsulated Wash down
Power-on indication	LED, Green
Excess gain indication	LED

Features

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

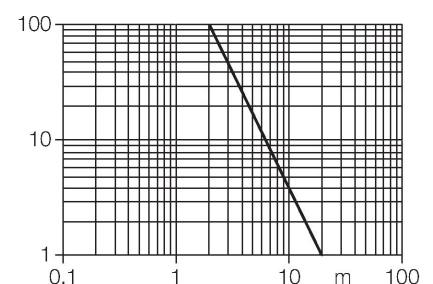
Wiring diagram



Functional principle

Opposed mode sensors consist of an emitter and receiver. They are installed opposite to 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. The excellent light/dark contrast and the high excess gain allow operation over larger distances and under difficult conditions.

Excess gain curve
Excess gain in relation to the distance

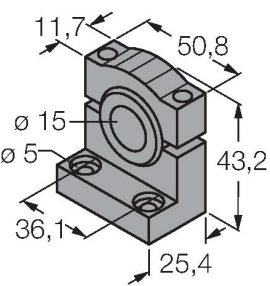


Technical data

Tests/approvals	
Approvals	CE, UL, CSA

Accessories

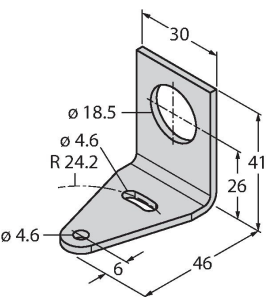
SMB1815SF	3053279
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Technical drawing of the SMB1815SF mounting bracket. It is a 3D perspective view showing a black PBT bracket with a central circular opening. Dimensions include: top width 11,7; top flange width 50,8; central hole diameter $\varnothing 15$; mounting hole diameter $\varnothing 5$; bottom flange width 36,1; total height 43,2; and bottom flange thickness 25,4.

Mounting bracket, PBT black, for PICO-GUARD points

SMB18A	3033200
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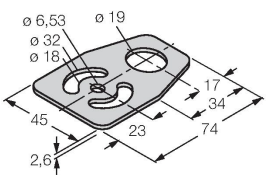
Technical drawing of the SMB18A mounting bracket. It is a 3D perspective view of a rectangular stainless steel bracket. Dimensions include: top flange width 30; top flange height 41; central hole diameter $\varnothing 18.5$; mounting hole diameter $\varnothing 4.6$; radius R 24.2; bottom flange width 46; and bottom flange thickness 6.

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

SMB18FM	3079421
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mounting bracket, black, M22 x1.5 mm, male thread, female thread M18 x 1, for sensors with 18 mm thread

SMBAMS18P	3073134
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Technical drawing of the SMBAMS18P mounting bracket. It is a 3D perspective view of a stainless steel bracket with a complex shape. Dimensions include: top flange width 45; top flange height 17; central hole diameter $\varnothing 19$; mounting hole diameter $\varnothing 32$; side hole diameter $\varnothing 6.53$; side hole diameter $\varnothing 18$; bottom flange width 74; bottom flange height 23; and bottom flange thickness 2,6.

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