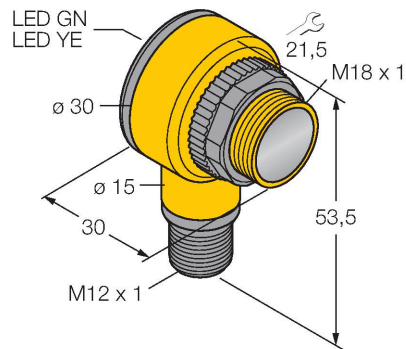


T18AW3RQ1

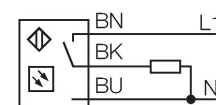
Photoelectric Sensor – Opposed Mode Sensor (Receiver)



Features

- M12 × 1 male connector, 4-pin
- Protection classes IP67/IP69K
- Ambient temperature: -40 °C...+70 °C
- Selectable light/dark operation or light operation with alarm function

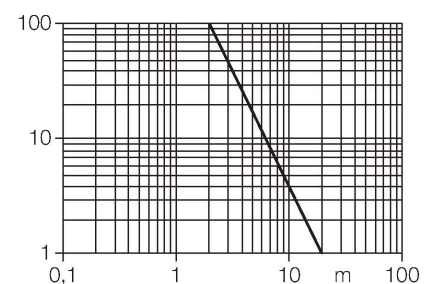
Wiring diagram



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 extremely 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

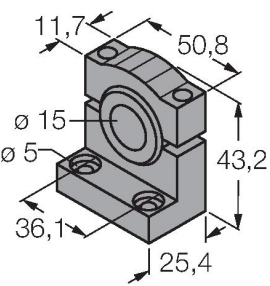
Type	T18AW3RQ1
ID	3033424
Optical data	
Function	Opposed mode sensor
Operating mode	Receiver
Range	0...20000 mm
Electrical data	
Operating voltage	20...250 VAC
AC rated operational current	≤ 200 mA
Output function	Light operation, Relay output
Switching frequency	≤ 40 Hz
Readiness delay	≤ 100 ms
Response time typical	< 16 ms
Mechanical data	
Design	Tube, T18
Dimensions	Ø 18 x 30 x 30 x 54 mm
Housing material	Plastic, Thermoplastic material
Lens	plastic, Polycarbonate
Electrical connection	Connector, 1/2", PVC
Number of cores	4
Ambient temperature	-40...+70 °C
Protection class	IP67 IP69
Special features	Chemical-resistant Encapsulated Wash down
Power-on indication	LED, Green
Switching state	LED, Yellow

Technical data

Excess gain indication	LED
Tests/approvals	
Approvals	CE, UL, CSA

Accessories

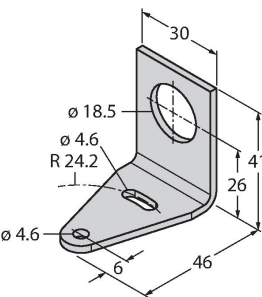
SMB1815SF	3053279
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Technical drawing of the SMB1815SF mounting bracket. It is a 3D perspective view showing a black PBT bracket with a central circular opening. Dimensions include: top width 11,7; top outer width 50,8; central hole diameter $\varnothing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

Mounting bracket, PBT black, for PICO-GUARD points

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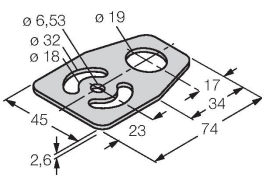
Technical drawing of the SMB18A mounting bracket. It is a 3D perspective view showing a rectangular stainless steel bracket. Dimensions include: top width 30; central hole diameter $\varnothing 18.5$; mounting hole diameter $\varnothing 4.6$; radius R 24.2; bottom hole diameter $\varnothing 4.6$; bottom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

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 showing a stainless steel bracket with a complex shape. Dimensions include: top width 45; top outer width 74; central hole diameter $\varnothing 19$; mounting hole diameter $\varnothing 6.53$; bottom hole diameter $\varnothing 32$; bottom outer width 23; bottom width 2,6; and height 17.

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