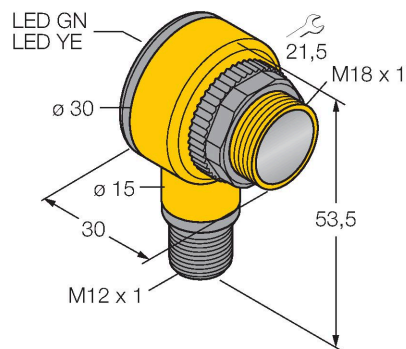


# T183EQ1

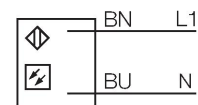
## Photoelectric Sensor – Opposed Mode Sensor (Emitter)



### Features

- M12 × 1 male connector, 4-pin
- Protection classes IP67/IP69K
- Ambient temperature: -40 °C...+70 °C
- Operating voltage: 20...250 VAC

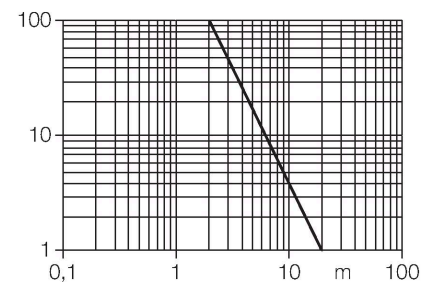
### Wiring diagram



### 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

Type	T183EQ1
ID no.	3033423
<b>Optical data</b>	
Function	Opposed mode sensor
Operating mode	Emitter
Light type	IR
Wavelength	950 nm
Range	0...20000 mm
<b>Electrical data</b>	
Operating voltage	20...250 VAC
Readiness delay	≤ 100 ms
<b>Mechanical data</b>	
Design	Rectangular with thread, T18
Dimensions	Ø 18 x 30 x 30 x 54 mm
Housing material	Plastic, Thermoplastic material
Lens	plastic, Polycarbonate
Electrical connection	Connectors, 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
Excess gain indication	LED
<b>Tests/approvals</b>	
Approvals	CE, UL, CSA

Accessories

SMB1815SF3053279

Mounting bracket, PBT black, for PICO-GUARD points

Technical drawing of the SMB1815SF mounting bracket. It is a 3D perspective view of a black PBT bracket. Dimensions are: top width 50.8, top depth 11.7, front width 36.1, front depth 25.4, side width 43.2, and a central hole with diameter 15. There are also two smaller holes with diameter 5 on the front face.

SMB18A3033200

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

Technical drawing of the SMB18A mounting bracket. It is a 3D perspective view of a rectangular stainless steel bracket. Dimensions are: top width 30, side width 41, front width 46, and front depth 6. There is a large circular hole with diameter 18.5 and a smaller hole with diameter 4.6. A radius of R 24.2 is indicated for the bottom edge.

SMB18FM3079421

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

Technical drawing of the SMB18FM mounting bracket. It is a 3D perspective view of a black mounting bracket. Dimensions are: top width 50.8, top depth 11.7, front width 36.1, front depth 25.4, side width 43.2, and a central hole with diameter 15. There are also two smaller holes with diameter 5 on the front face.

SMBAMS18P3073134

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

Technical drawing of the SMBAMS18P mounting bracket. It is a 3D perspective view of a stainless steel bracket. Dimensions are: top width 30, side width 41, front width 46, and front depth 6. There is a large circular hole with diameter 18.5 and a smaller hole with diameter 4.6. A radius of R 24.2 is indicated for the bottom edge.