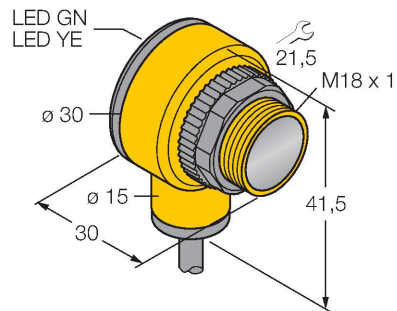


T18AW3DQP1

Photoelectric Sensor – Diffuse Mode Sensor



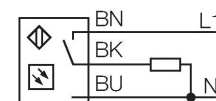
Technical data

Type	T18AW3DQP1
ID	3078523
Optical data	
Function	Proximity switch
Operating mode	Diffuse
Light type	IR
Wavelength	880 nm
Range	0...300 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
Setting option	Potentiometer
Mechanical data	
Design	Tube, T18
Dimensions	Ø 18 x 30 x 30 x 41.5 mm
Housing material	Plastic, Thermoplastic material
Lens	plastic, Acrylic
Electrical connection	Cable with connector, 1/2", 0.15 m, PVC
Number of cores	4
Core cross-section	0.5 mm ²
Ambient temperature	-40...+70 °C
Protection class	IP67 IP69

Features

- M12 × 1 cable with male end, 150 mm, 4-pin
- Protection class IP67
- Ambient temperature: -40 °C...+70 °C
- Selectable light/dark operation or light operation with alarm function

Wiring diagram

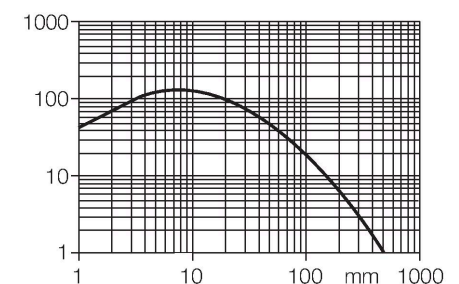


Functional principle

The emitter and receiver are incorporated in a single housing. The light reflection of the target is detected and triggers the sensor to switch. Thus the switching distance largely depends on the reflectivity of the target.

Excess gain curve

Excess gain in relation to the distance



Technical data

Special features	Chemical-resistant Encapsulated Wash down
Power-on indication	LED, Green
Switching state	LED, Yellow
Excess gain indication	LED
Tests/approvals	
Approvals	CE, UL, CSA

Accessories

SMB1815SF

3053279

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 11.7, top length 50.8, front width 36.1, front height 25.4, side height 43.2, and a central hole diameter of 15. There are also smaller holes with a diameter of 5.

SMB18A

3033200

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 height 41, front height 26, front width 46, and a base width of 6. There is a large circular hole with a diameter of 18.5 and a smaller hole with a diameter of 4.6. A radius of R 24.2 is indicated.

SMB18FM

3079421

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 45, top length 74, front width 23, front height 2.6, and a side height of 17. There are three holes with diameters of 6.53, 32, and 18.

SMBAMS18P

3073134

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 mounting bracket. Dimensions are: top width 45, top length 74, front width 23, front height 2.6, and a side height of 17. There are three holes with diameters of 6.53, 32, and 18.