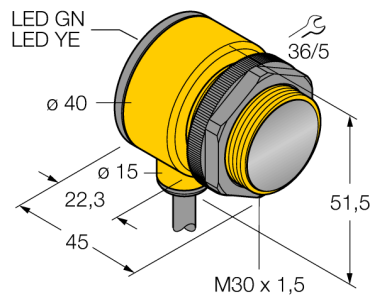


Photoelectric Sensor

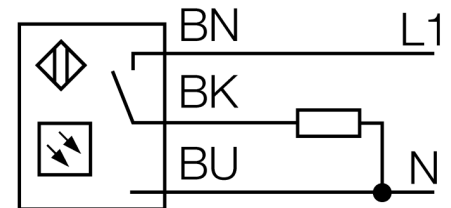
Diffuse Mode Sensor with Fixed-Field Background Suppression

T30AW3FF400 W/30



- Cable, 2 m
- Protection class IP67
- Ambient temperature: -40...+70 °C

Wiring Diagram

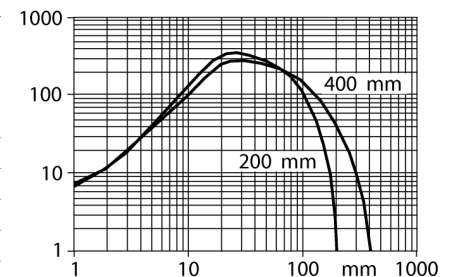


Functional principle

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.

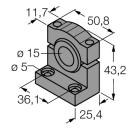
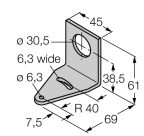
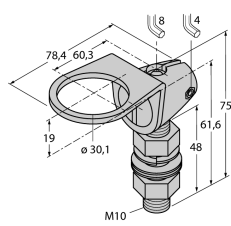
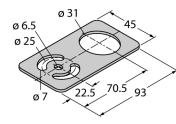
Excess gain curve

Excess gain in relation to the distance



Type	T30AW3FF400 W/30
ID	3033941
Optical data	
Function	Proximity switch
Operating mode	Background suppression, non-adjustable
Light type	IR
Wavelength	880 nm
Range	0...400 mm
Electrical data	
Operating voltage U_n	20...250VAC
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, T30
Dimensions	Ø 30 x 45 x 40 x 51.5 mm
Housing material	Plastic, Thermoplastic material
Lens	plastic, Acrylic
Electrical connection	Cable, 9 m, PVC
Number of cores	3
Core cross-section	0.5 mm ²
Ambient temperature	-40...+70 °C
Protection class	IP69
Special features	
	Encapsulated
	Wash down
Power-on indication	LED, Green
Switching state	LED, Yellow
Excess gain indication	LED
Tests/approvals	
MTTF	448 years acc. to SN 29500 (Ed. 99) 40 °C
Approvals	CE, UL, CSA

Accessories

Type code	Ident no.		Dimension drawing
SMB1815SF	3053279	Mounting bracket, PBT black, for PICO-GUARD points	 Technical drawing of the SMB1815SF mounting bracket. It is a small, L-shaped bracket made of PBT black plastic. Dimensions include: overall width 50.8, overall height 43.2, mounting hole diameter 11.7, sensor hole diameter 15, and base dimensions of 36.1 and 25.4.
SMB30A	3032723	Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread	 Technical drawing of the SMB30A mounting bracket. It is a rectangular bracket made of stainless steel. Dimensions include: overall width 45, overall height 61, mounting hole diameter 30.5, sensor hole diameter 6.3, and a base radius of R 40.
SMB30FAM10	3011185	Mounting bracket, stainless steel, for M10 x 1.5 thread, thread length 30 mm	 Technical drawing of the SMB30FAM10 mounting bracket. It is a bracket made of stainless steel with an M10 thread. Dimensions include: overall width 78.4, overall height 75, mounting hole diameter 60.3, sensor hole diameter 30.1, and a base diameter of 48.
SMBAMS30P	3073135	Mounting bracket, stainless steel, for sensors with 30 mm thread	 Technical drawing of the SMBAMS30P mounting bracket. It is a rectangular bracket made of stainless steel. Dimensions include: overall width 45, overall height 93, mounting hole diameter 31, sensor hole diameter 6.5, and a base diameter of 22.5.