

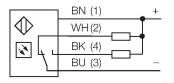
S30SN6FF600 W/30 Photoelectric Sensor – Diffuse Mode Sensor with Fixed-Field Background Suppression

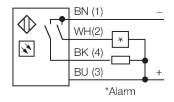
Technical data	
Туре	S30SN6FF600 W/30
ID no.	3033890
Optical data	
Function	Proximity switch
Operating mode	Background suppression, non-adjustable
Light type	IR
Wavelength	880 nm
Range	0600 mm
Electrical data	
Operating voltage	1030 VDC
No-load current	≤ 25 mA
Short-circuit protection	yes / Cyclic
Reverse polarity protection	yes
Output function	Connection programmable, NPN
Switching frequency	≤ 160 Hz
Readiness delay	≤ 100 ms
Response time typical	< 3 ms
Overcurrent release	> 220 mA
Mechanical data	
Design	Threaded barrel, S30
Dimensions	Ø 30 mm
Housing material	Plastic, Thermoplastic material
Lens	plastic, Acrylic
Electrical connection	Cable, 9 m, PVC
Number of cores	4
Ambient temperature	-40+70 °C
Protection class	IP67
Special features	Encapsulated
Power-on indication	LED, Green
Switching state	LED, Yellow
Error indication	LED, green, Flashing
Excess gain indication	LED
Alarm display	LED yellow Flashing
Tests/approvals	
MTTF	448 years acc. to SN 29500 (Ed. 99) 40 °C

Features

- Cable, 9 m
- Protection class IP67
- Ambient temperature: -40...+70 °C
- Operating voltage: 10...30 VDC
- ■NPN switching output, changeover

Wiring diagram



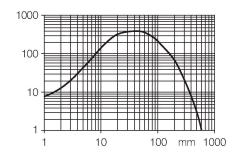


Functional principle

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



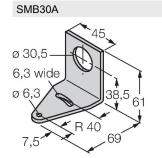


Technical data

Approvals

CE, UL, CSA

Accessories



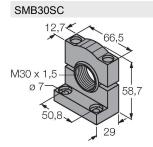
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Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread



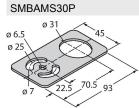
3011185

Mounting bracket, stainless steel, for M10 x 1.5 thread, thread length 30 mm



3052521

Mounting bracket, PBT black, for sensors with 30 mm thread, rotatable



3073135

Mounting bracket, stainless steel, for sensors with 30 mm thread