

# S30RW3FF600

## Photoelectric Sensor – Diffuse Mode Sensor with Fixed-Field Background Suppression

### Technical data

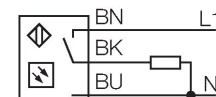
Type	S30RW3FF600
ID no.	3034566
<b>Optical data</b>	
Function	Proximity switch
Operating mode	Background suppression, non-adjustable
Light type	IR
Wavelength	880 nm
Range	0...600 mm
<b>Electrical data</b>	
Operating voltage	20...250 VAC
AC rated operational current	≤ 200 mA
Output function	Dark operation, Relay output
Switching frequency	≤ 40 Hz
Readiness delay	≤ 100 ms
Response time typical	< 16 ms
<b>Mechanical data</b>	
Design	Threaded barrel, S30
Dimensions	Ø 30 mm
Housing material	Plastic, Thermoplastic material
Lens	plastic, Acrylic
Electrical connection	Cable, 2 m, PVC
Number of cores	3
Ambient temperature	-40...+70 °C
Protection class	IP67
Special features	Encapsulated
Power-on indication	LED, Green
Switching state	LED, Yellow
Excess gain indication	LED
<b>Tests/approvals</b>	
MTTF	448 years acc. to SN 29500 (Ed. 99) 40 °C
Approvals	CE, UL, CSA



### Features

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

### Wiring diagram

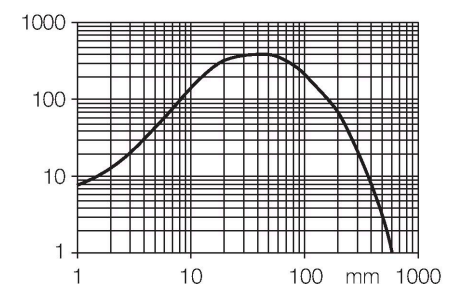


### Functional principle

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

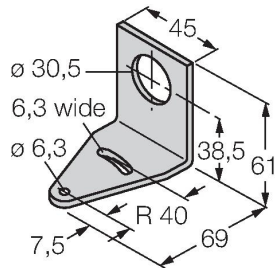
Excess gain in relation to the distance



## Accessories

**SMB30A**

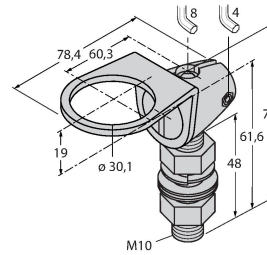
**3032723**



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

**SMB30FAM10**

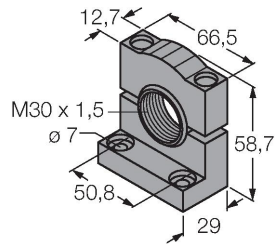
**3011185**



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

**SMB30SC**

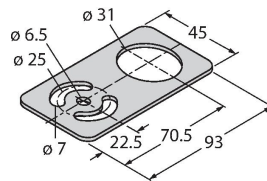
**3052521**



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

**SMBAMS30P**

**3073135**



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