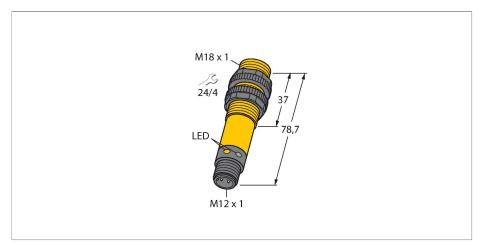


# S18SN6REQ Photoelectric Sensor – Opposed Mode Sensor (Receiver)



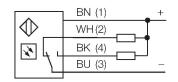
#### Technical data

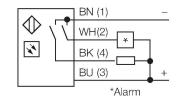
Туре	S18SN6REQ
ID	3037078
Optical data	
Function	Opposed mode sensor
Operating mode	Emitter/receiver pair
Range	020000 mm
Electrical data	
Operating voltage	1030 VDC
No-load current	≤ 25 mA
Short-circuit protection	yes / Cyclic
Reverse polarity protection	yes
Output function	Connection programmable, NPN
Switching frequency	≤ 160 Hz
Readiness delay	≤ 100 ms
Response time typical	< 3 ms
Overcurrent release	> 220 mA
Mechanical data	
Design	Tube, S18
Dimensions	Ø 18 x 78.7 mm
Housing material	Plastic, Thermoplastic material
Lens	plastic, Polycarbonate
Electrical connection	Connector, M12 × 1, PVC
Number of cores	4
Ambient temperature	-40+70 °C
Protection class	IP67 IP69
Special features	Encapsulated Wash down

### **Features**

- ■M12 × 1 male connector, 4-pin
- Protection classes IP67/IP69K
- ■Ambient temperature: -40 °C...+70 °C
- Selectable light/dark operation or light operation with alarm function
- Operating voltage: 10...30 VDC
- ■NPN switching output, changeover

## Wiring diagram

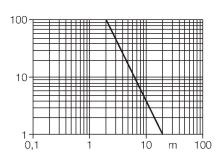




#### Functional principle

Opposed mode sensors consist of an emitter and receiver. They are installed opposite 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. An excellent contrast between light and dark conditions and an extremly high excess gain are typical of this sensing mode, thus allowing operation over larger distances and under difficult conditions. Excess gain curve Excess gain in relation to the distance

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			
Approvals	CE, UL, CSA		



### Accessories

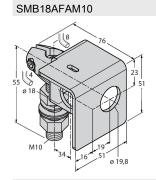
Technical data

## SMB18A mm thread ø 18.5 ø 4.6

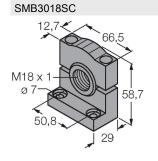
Mounting bracket, rectangular, stainless steel, for sensors with 18

3033200

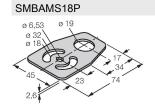
3053952



3012558 Mounting bracket, material VA 1.4401, for M10 x 1.5 thread, thread length 18 mm



Mounting bracket, PTB black, for sensors with 18 mm thread



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

3073134

#### Accessories

Dimension drawing	Туре	ID	
M12 x 1 o 15 14 11.5 1-4 11.5 1-5 0 50	RKC4.4T-2/TEL	6625013	Connection cable, female M12, straight, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com
26.5 M12 x1  26.5 M2 x1  26.5 M2 x1	WKC4.4T-2/TEL	6625025	Connection cable, female M12, angled, 4-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com