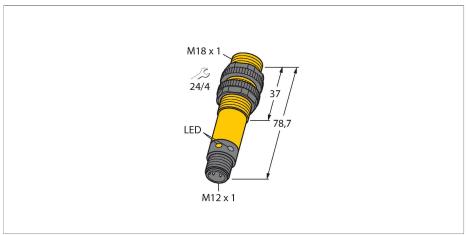


# S18SP6REQ Photoelectric Sensor - Opposed Mode Sensor (Receiver)



Technical data		
Туре	S18SP6REQ	
ID no.	3037079	
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, PNP	
Switching frequency	≤ 160 Hz	
Readiness delay	≤ 100 ms	
Response time typical	< 3 ms	
Overcurrent release	> 220 mA	
Mechanical data		
Design	Threaded barrel, S18	
Dimensions	Ø 18 x 78.7 mm	
Housing material	Plastic, Thermoplastic material	
Lens	plastic Polycarbonate	

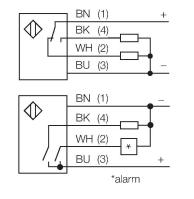
	÷ 1115	
Overcurrent release	> 220 mA	
Mechanical data		
Design	Threaded barrel, S18	
Dimensions	Ø 18 x 78.7 mm	
Housing material	Plastic, Thermoplastic material	
Lens	plastic, Polycarbonate	
Electrical connection	Connectors, M12 × 1, PVC	
Number of cores	4	
Ambient temperature	-40+70 °C	
Protection class	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
- ■PNP switching output, changeover

# Wiring diagram

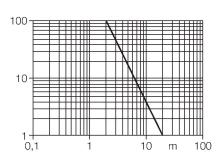


# Functional principle

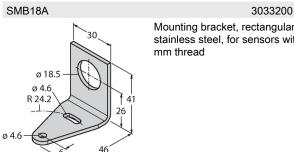
Opposed mode sensors consist of an emitter and receiver. They are installed opposite each other so that the light from the emitter is aimed directly at the receiver. When an object interrupts or weakens the light beam, the sensor switches. Opposed mode sensors are the most reliable photoelectric sensors 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

### Technical data

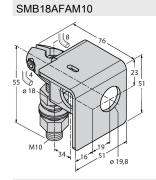
Power-on indication	LED, Green	
Switching state	LED, Yellow	
Error indication	LED, green, Flashing	
Excess gain indication	LED	
Alarm display	LED yellow Flashing	
Tests/approvals		
Approvals	CE, UL, CSA	



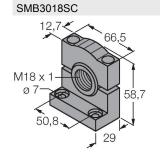
## Accessories



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

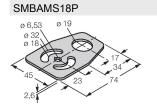


3012558 Mounting bracket, material VA 1.4401, for M10 x 1.5 thread, thread length 18 mm



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

3053952



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

3073134

### Accessories

Dimension drawing	Туре	ID no.	
M12×1 e15	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
0 15 M12 x 1 265	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