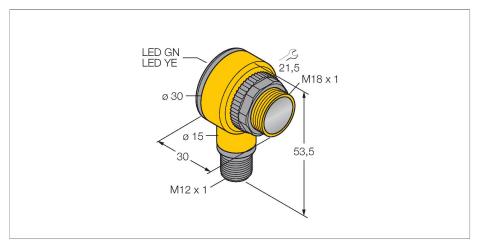


# T18RP6RQ Photoelectric Sensor – Opposed Mode Sensor (Receiver)



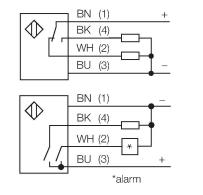
#### Technical data

Туре	T18RP6RQ		
ID	3044382		
Optical data			
Function	Opposed mode sensor		
Operating mode	Receiver		
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		
Overcurrent release	> 220 mA		
Mechanical data			
Design	Tube, T18		
Dimensions	30 x 30 x 54 mm		
Housing material	Plastic, PBT		
Lens	plastic, Lexan		
Electrical connection	Connector, M12 × 1		
Ambient temperature	-40+70 °C		
Protection class	IP67 IP69K		
Special features	Wash down		
Power-on indication	LED, Green		
Switching state	LED, Yellow		

#### **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

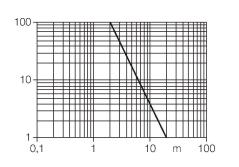
#### Wiring diagram



# 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

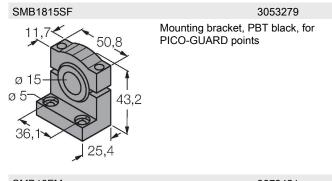
Excess gain in relation to the distance



# Technical data

Error indication	LED, green, Flashing	
Alarm display	LED yellow Flashing	
Tests/approvals		
Approvals	CE, UL, CSA	

#### Accessories

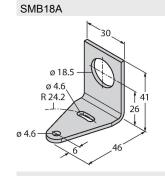


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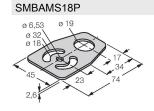
mounting bracket, black, M22 x1.5

mm, male thread, female thread M18

x 1, for sensors with 18 mm thread



3033200 Mounting bracket, rectangular, stainless steel, for sensors with 18 mm thread



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

3073134

# Accessories

Dimension drawing	Туре	ID	
M12x1 015 14	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 26.5 32	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