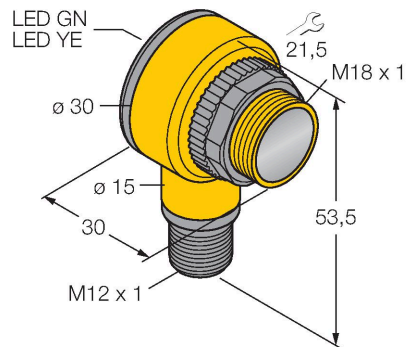


T18RP6RQ

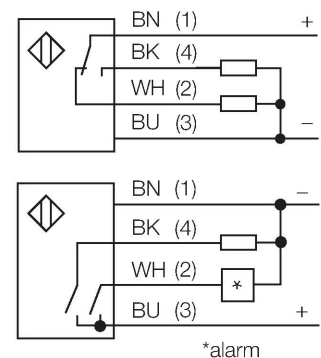
Photoelectric Sensor – Opposed Mode Sensor (Receiver)



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

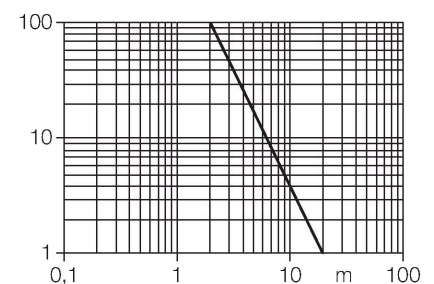
Wiring diagram



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 extremely 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



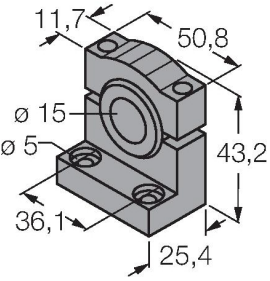
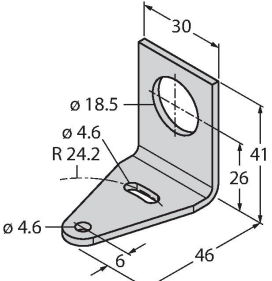
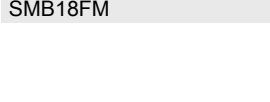
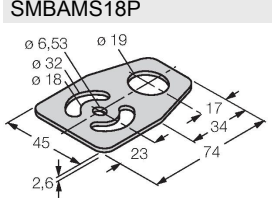
Technical data

Type	T18RP6RQ
ID no.	3044382
Optical data	
Function	Opposed mode sensor (receiver)
Range	0...20000 mm
Electrical data	
Operating voltage	10...30 VDC
No-load current	≤ 25 mA
Short-circuit protection	yes / Cyclic
Reverse polarity protection	yes
Output function	Connection programmable, PNP
Switching frequency	≤ 160 Hz
Overcurrent release	> 220 mA
Mechanical data	
Design	Rectangular with thread, T18
Dimensions	30 x 30 x 54 mm
Housing material	Plastic, PBT
Lens	plastic, Lexan
Electrical connection	Connectors, M12 × 1
Ambient temperature	-40...+70 °C
Protection class	IP67 IP69K
Special features	Wash down
Power-on indication	LED, Green
Switching state	LED, Yellow
Error indication	LED, green, Flashing
Alarm display	LED yellow Flashing

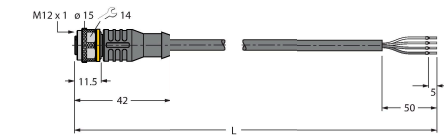
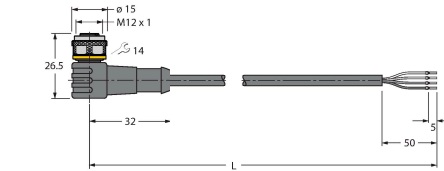
Technical data

Tests/approvals	
Approvals	CE, UL, CSA

Accessories

SMB1815SF	3053279		Mounting bracket, PBT black, for PICO-GUARD points
SMB18A	3033200		Mounting bracket, rectangular, stainless steel, for sensors with 18 mm thread
SMB18FM	3079421		mounting bracket, black, M22 x 1.5 mm, male thread, female thread M18 x 1, for sensors with 18 mm thread
SMBAMS18P	3073134		Mounting bracket, stainless steel, for sensors with 18 mm thread

Accessories

Dimension drawing	Type	ID no.	
	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
	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