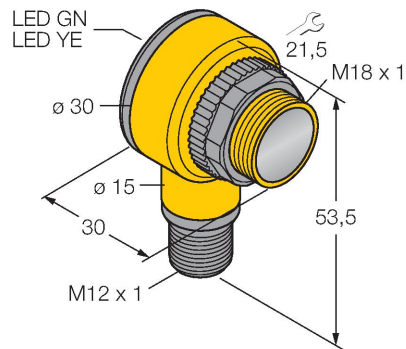


T18-2NAEJ-Q8

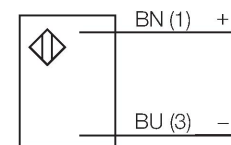
Photoelectric Sensor – Opposed Mode Sensor (Emitter)



Features

- M12 × 1 male connector, 4-pin
- Protection classes IP67/IP69K
- Ambient temperature: -40 °C...+70 °C
- Operating voltage: 10...30 VDC

Wiring diagram



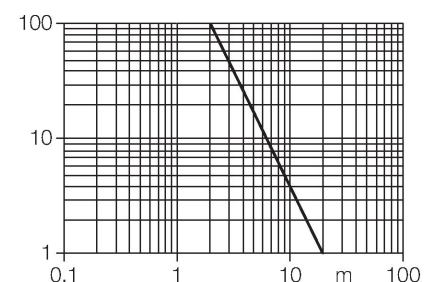
Technical data

Type	T18-2NAEJ-Q8
ID	3802622
Optical data	
Function	Opposed mode sensor
Operating mode	Emitter
Light type	IR
Wavelength	624 nm
Range	0...20000 mm
Electrical data	
Operating voltage	10...30 VDC
Residual ripple	< 10 % U _{ss}
Readiness delay	≤ 500 ms
Mechanical data	
Design	Tube, T18
Dimensions	30 x 30 x 54 mm
Housing material	Plastic, Thermoplastic material
Lens	plastic, Acrylic
Electrical connection	Connector, M12 × 1
Number of cores	2
Ambient temperature	-40...+70 °C
Protection class	IP67 IP68 IP69
Special features	Chemical-resistant Encapsulated Wash down Resistant to chemicals
Power-on indication	LED, Green
Excess gain indication	LED

Functional principle

Opposed mode sensors consist of an emitter and receiver. They are installed opposite to 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. The excellent light/dark contrast and the high excess gain allow operation over larger distances and under difficult conditions.

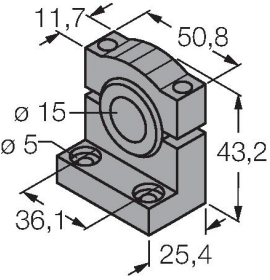
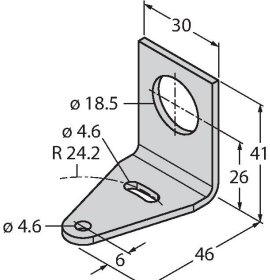
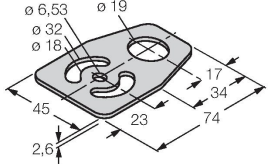
Excess gain curve
Excess gain in relation to the distance



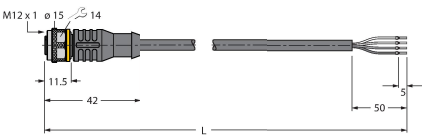
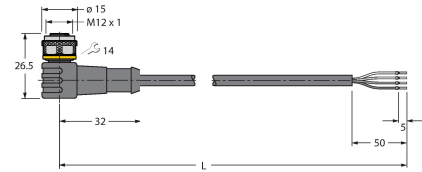
Technical data

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 x1.5 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	
	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