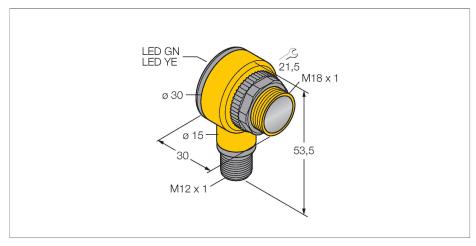
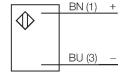
T186EQ Photoelectric Sensor – Opposed Mode Sensor (Emitter)



Features

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

Wiring diagram



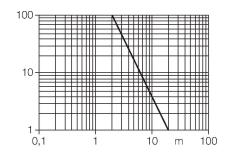
Technical data

Туре	T186EQ		
ID	3033420		
Optical data			
Function	Opposed mode sensor		
Operating mode	Emitter		
Light type	IR		
Wavelength	950 nm		
Range	020000 mm		
Electrical data			
Operating voltage	1030 VDC		
Residual ripple	< 10 % U _{ss}		
Readiness delay	≤ 100 ms		
Mechanical data			
Design	Tube, T18		
Dimensions	Ø 18 x 30 x 30 x 54 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	Chemical-resistant Encapsulated Wash down		
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.

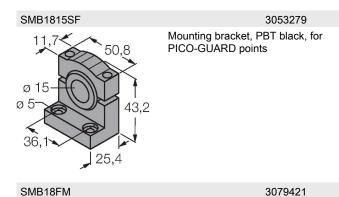
Excess gain curve
Excess gain in relation to the distance



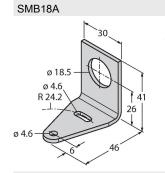
Technical data

Tests/approvals	
Approvals	CE, UL, CSA

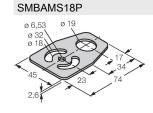
Accessories



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	Type	ID	
M12 x 1 o 15 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
215 M12x1 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