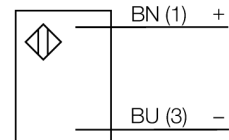


**Photoelectric sensor
opposed mode sensor (emitter)
T186E**



- Cable, 2 m
- Protection class IP67
- Ambient temperature: -40...+70 °C
- Operating voltage: 10...30 VDC

Wiring diagram

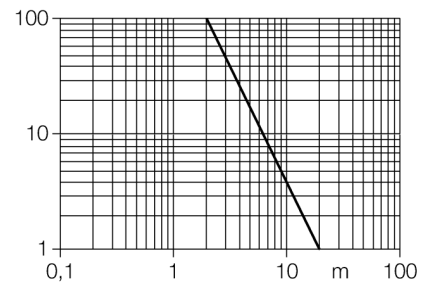


Functional principle

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



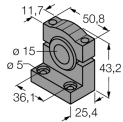
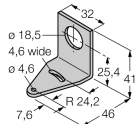
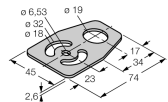
Type code	T186E
Ident no.	3032468
Operating mode	opposed mode sensor (emitter)
Light type	IR
Wavelength	950 nm
Range	0...20000 mm
Ambient temperature	-40...+70 °C
Operating voltage	10...30VDC
Residual ripple	< 10 % U _s
No-load current I ₀	≤ 20 mA
Design	cylindrical/threaded, T18
Dimensions	30 x 30 x 41.5 mm
Housing material	plastic, PBT
Lens	plastic, Lexan
Connection	cable
Cable length	2 m
Cable cross section	2 x 0.5 mm ²
Protection class	IP67
Power-on indication	LED green

Photoelectric sensor
opposed mode sensor (emitter)
T186E

TURCK

Industrial
Automation

Accessories

Type code	Ident no.	Description	Dimension drawing
SMB1815SF	3053279	Mounting bracket, PBT black, for PICO-GUARD points	 <p>Technical drawing showing dimensions for the SMB1815SF mounting bracket: 11.7, 50.8, 43.2, 25.4, 36.1, 0.5, 0.5, 1.5.</p>
SMB18A	3033200	Mounting bracket, stainless steel, for sensors with 18 mm thread	 <p>Technical drawing showing dimensions for the SMB18A mounting bracket: 32, 18.5, 4.6 wide, 4.5, 25.4, 41, 7.6, R 24.2, 46.</p>
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	 <p>Technical drawing showing dimensions for the SMBAMS18P mounting bracket: 6.53, 19, 32, 16, 45, 23, 74, 17, 34, 2.0.</p>