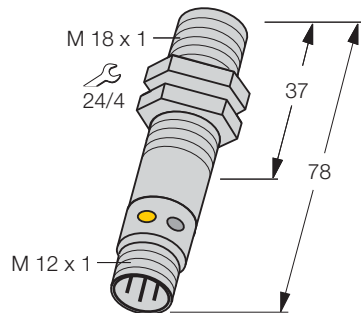


**photoelectric sensor
emitter
M186EQ**

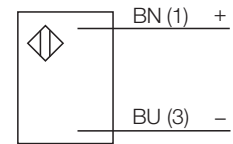
TURCK

Industrial
Automation



● **M12 x 1 connector**

Wiring diagram

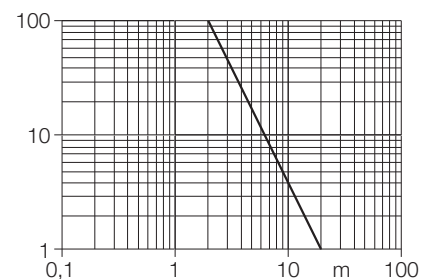


Functional principle

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	M186EQ
Ident-No.	3048347
Operating mode	opposed mode sensor (emitter)
Light type	IR
Wavelength	950 nm
Range	0... 20000 mm
Ambient temperature	-40...+ 70°C
Operating voltage	10... 30 VDC
DC rated operational current	≤ 150 mA
No-load current I_0	≤ 20 mA
Housing	cylindrical/threaded, M18
Dimensions	78mm
Housing diameter	Ø 18mm
Housing material	Metal, V2A (1.4305)
Lens	plastic, Lexan
Electrical connection	Connectors, M12 x 1
Protection class	IP67
Operating voltage	LED green