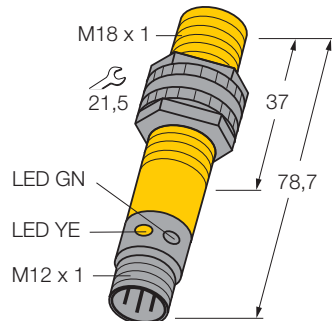


**photoelectric sensor
emitter
S186EQ**

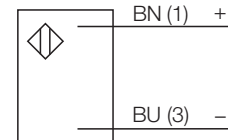
TURCK

Industrial
Automation



- M12 x 1 connector
- degree of protection IP68 - IP69K

Wiring diagram

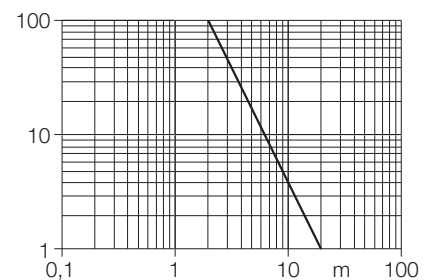


Functional principle

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



Type	S186EQ
Ident-No.	3029507
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, S18
Dimensions	78.7mm
Housing diameter	Ø 18mm
Housing material	Plastic, PBT
Lens	plastic, Lexan
Electrical connection	Connectors, M12 x 1
Protection class	IP68 / IP69K
Operating voltage	LED green