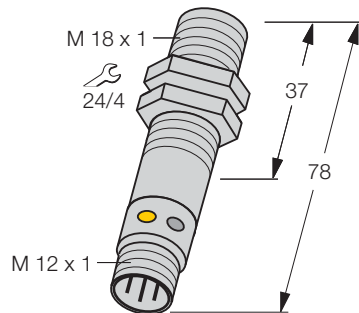


**photoelectric sensor
receiver
M18SP6RQ**

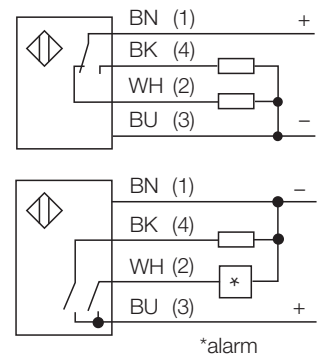
TURCK

Industrial
Automation



- selectable light or dark operation or light operation with alarm function
- M12 x 1 connector
- Operating voltage 10...30 VDC
- pnp switching output
- degree of protection IP69K

Wiring diagram

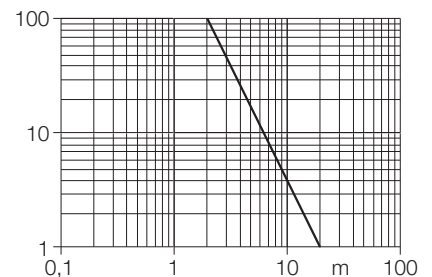


Functional principle

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	M18SP6RQ
Ident-No.	3048651
Operating mode	opposed mode sensor (receiver)
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	≤ 25 mA
Output function	connection programmable, PNP
Switching frequency	≤ 160Hz
Readiness delay	≤ 100 ms
Overcurrent release	>220 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
Switching state	LED yellow
Error indication	LED green flashing
Alarm display	LED yellow flashing