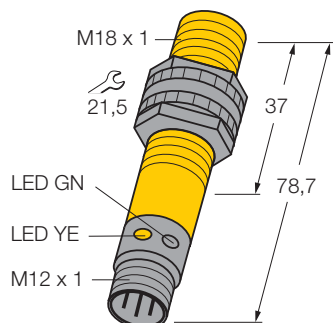


**photoelectric sensor
receiver
S18SN6RQ**

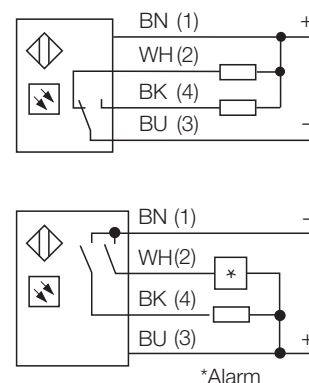
TURCK

Industrial
Automation



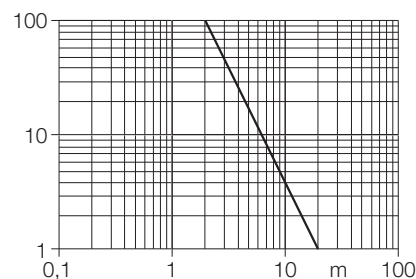
- selectable light or dark operation or light operation with alarm function
- M12 x 1 connector
- degree of protection IP68 - IP69K

Wiring diagram



Functional principle

Opposed mode sensors are composed of an emitter and a receiver, both separately housed. When installed, the emitter light should directly aim at the receiver. If 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. Large distance operation is possible due to an excellent light/dark contrast and an extremely high excess gain. Even in case of dirt build-up on the lens or misalignment the sensor type works reliably.



Type	S18SN6RQ
Ident-No.	3029506
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
Short-circuit protection	yes / cyclic
Reverse polarity protection	yes
Output function	connection programmable, NPN
Switching frequency	≤ 0.16kHz
Switching frequency	≤ 160Hz
Readiness delay	≤ 100 ms
Overcurrent release	>220 mA
Housing	cylindrical/threaded, S18
Dimensions	78.7mm
Housing diameter	Ø 18mm
Housing material	Plastic, PBT
Lens	Lexan, Lexan
Electrical connection	Connectors, M12 x 1
Protection class	IP68 / IP69K
Operating voltage	LED green
Switching state	LED yellow
Error indication	LED green flashing
Alarm display	LED yellow flashing