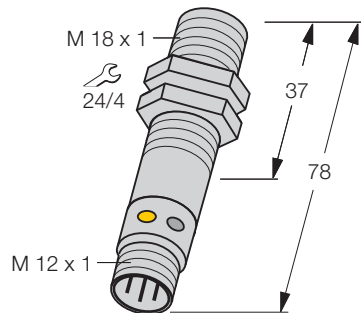


**photoelectric sensor
diffuse mode sensor
M18SP6DQ**

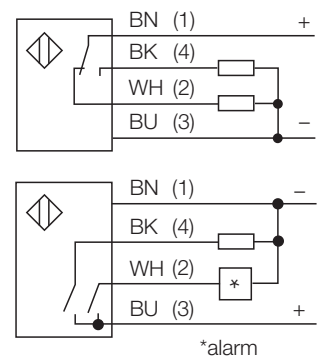
TURCK

Industrial
Automation



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

Wiring diagram

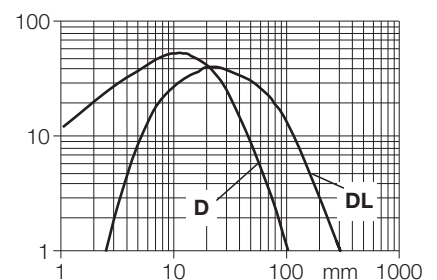


Functional principle

The emitter and receiver are incorporated in a single housing. The light reflection of the target is detected and triggers the sensor to switch. Thus the switching distance largely depends on the reflectivity of the target.

Excess gain curve

Excess gain in relation to the distance



Type	M18SP6DQ
Ident-No.	3048663
Operating mode	diffuse mode sensor
Light type	IR
Wavelength	880 nm
Range	0... 100 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, acrylic
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