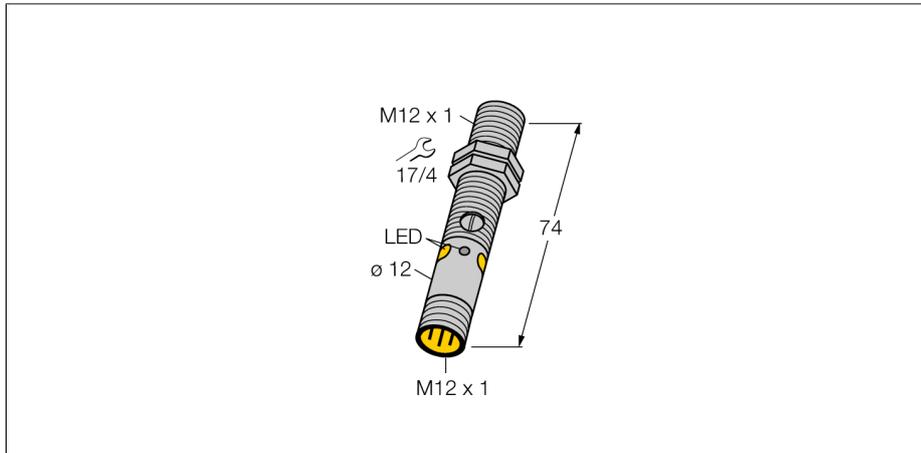


photoelectric sensor
diffuse mode sensor
M12PDQ8

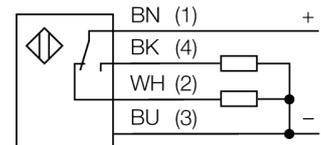
TURCK

Industrial
Automation



- Operating voltage 10...30 VDC
- indication of insufficient excess gain
- LED visible from all sides
- sensitivity adjustable via potentiometer
- M12 x 1 male

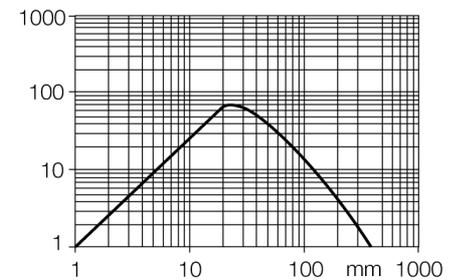
Wiring diagram



Functional principle

Identical to retro-reflective sensors, emitter and receiver circuitry are incorporated in the same housing of the diffuse mode sensors. However, diffuse mode sensors do not detect the interruption of the light beam but the reflection of the target. A target is detected if it reflects a sufficient amount of light back to the receiver. The switching distance of diffuse mode sensors thus largely depends on the reflectivity of the target.

Excess gain curve



Type	M12PDQ8
Ident-No.	3077179
Operating mode	diffuse mode sensor
Light type	red
Wavelength	660 nm
Range	0...400 mm
Ambient temperature	-20...+60 °C
Operating voltage	10...30VDC
DC rated operational current	≤ 100 mA
No-load current I ₀	≤ 20 mA
Output function	changover contact, PNP
Readiness delay	≤ 100 ms
Design	threaded barrel, M12
Dimensions	74 mm
Housing diameter	12 mm
Housing material	Metal, CuZn
Lens	plastic, PMMP
Connection	connector, M12 x 1
Protection class	IP67
Operating voltage	LED green
Switching state	LED yellow
Error indication	LED green flashing
Excess gain indication	LED yellow flashing