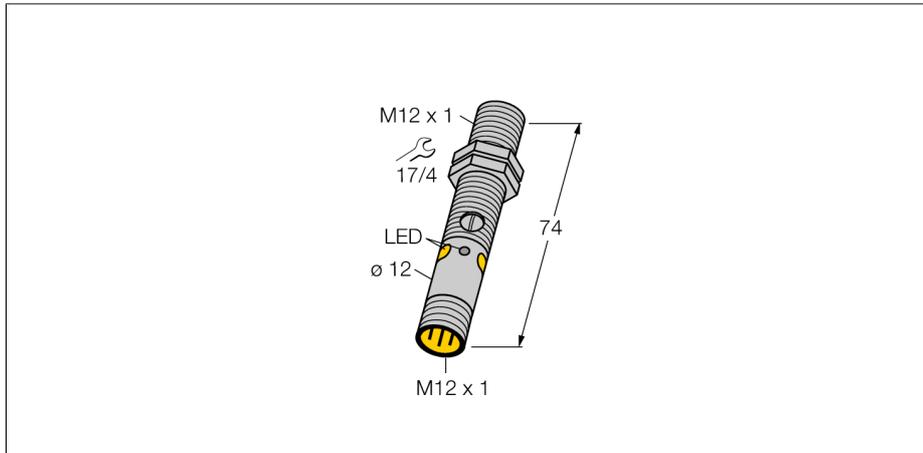
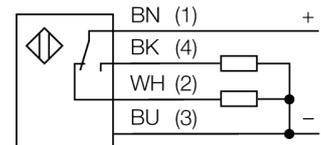


**photoelectric sensor
receiver
M12PRQ8**



- Operating voltage 10...0 VDC
- indication of insufficient excess gain
- LED visible from all sides
- sensitivity adjustable via potentiometer
- M12 x 1 male

Wiring diagram



Type	M12PRQ8
Ident-No.	3077199
Operating mode	opposed mode sensor (receiver)
Range	0...5000 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
Switching frequency	≤ 500 Hz
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

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

