

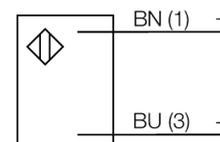
photoelectric sensor  
emitter  
M12EQ8

**TURCK**

Industrial  
Automation

- Operating voltage 10...30 VDC
- LED visible from all sides
- M12 x 1 male

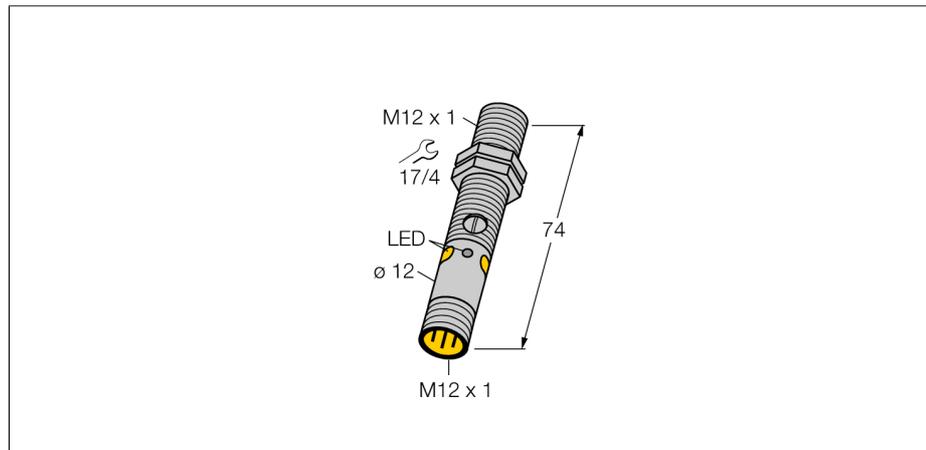
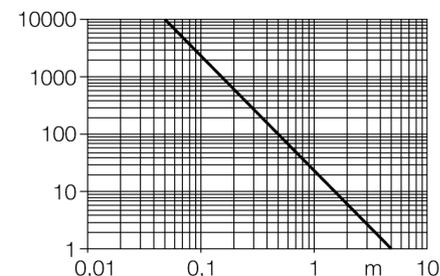
**Wiring diagram**



**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**



<b>Type</b>	M12EQ8
Ident-No.	3077203
<b>Operating mode</b>	opposed mode sensor (emitter)
Light type	red
Wavelength	660 nm
Range	0...5000 mm
Ambient temperature	-20...+60 °C
<b>Operating voltage</b>	10...30VDC
No-load current I <sub>0</sub>	≤ 20 mA
Readiness delay	≤ 100 ms
<b>Design</b>	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
<b>Operating voltage</b>	LED green
Error indication	LED green flashing