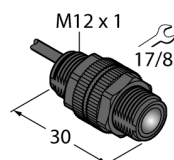


Photoelectric Sensor

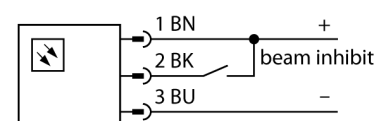
Opposed Mode Sensor (Emitter)

S12-2NAEJ-2M



- Cable, PVC, 2 m, black
- Protection class IP67
- Range: 20 m
- Infrared light
- Switching input for LED control
- Operating voltage: 10...30 VDC

Wiring Diagram



Type	S12-2NAEJ-2M
ID	3087410
Optical data	
Function	Opposed mode sensor
Operating mode	Emitter
Light type	IR
Wavelength	880 nm
Range	0...20 mm
Electrical data	
Operating voltage U_a	10...30 VDC
No-load current I_o	≤ 25 mA
Readiness delay	≤ 1 s
Readiness delay	≤ 1 ms
Response time typical	< 11 ms
Mechanical data	
Design	Tube, S12-2
Dimensions	Ø 12 x 30.4 mm
Housing material	Plastic, Thermoplastic material
Lens	Lexan, Polycarbonate
Electrical connection	Cable, 2 m, PVC
Number of cores	3
Core cross-section	0.34 mm ²
Ambient temperature	-25...+50 °C
Protection class	IP67
Special features	
Power-on indication	LED, Green
Error indication	LED, green, Flashing
Excess gain indication	LED
Tests/approvals	

Functional principle

Opposed mode sensors consist of an emitter and receiver. They are installed opposite to each other whereby the emitted light aims 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. The excellent light/dark contrast and the high excess gain allow operation over larger distances and under difficult conditions.

Excess Gain Curve

