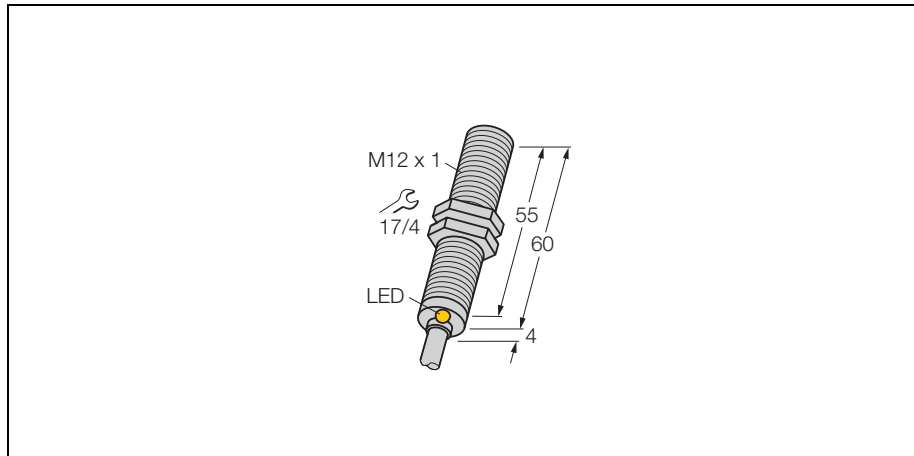
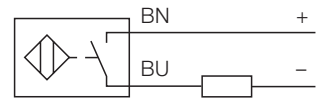


magnet-inductive proximity sensor
BIM-M12E-AG4X



- threaded barrel, M12 x 1
- Chrome-plated brass
- nominal switching distance 90 mm, in conjunction with magnet DMR31-15-5
- 2-wire DC, 10...65 VDC
- polarized version
- normally open
- cable connection

Wiring diagram

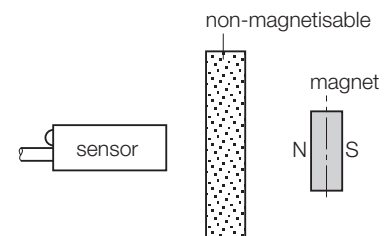


Functional principle

Magnet-inductive proximity sensors are actuated by magnetic fields and are thus capable of detecting permanent magnets through non-ferromagnetic materials (e.g. wood, plastic, non-ferrous metals, aluminium, stainless steel).

Thus it is possible to achieve large switching distances even with smaller housing styles. In combination with the actuation magnet DMR31-15-5, M8 style sensors by TURCK feature a nominal switching distance of 90 mm. Thus there are manifold detection possibilities, particularly if mounting space is limited or other difficult sensing conditions prevail.

Type	BIM-M12E-AG4X
Ident-No.	4430200
Rated operating distance Sn	90 mm
Hysteresis	1... 10 %
Temperature drift	≤ ± 15 %
Repeatability	≤ 0.3 %
Ambient temperature	-25...+ 70 °C
Operating voltage	10... 65VDC
DC rated operational current	≤ 200 mA
Residual current	≤ 0.8 mA
Switching frequency	≤ 0.3 kHz
Rated insulation voltage	≤ 0.5 kV
Output function	2-wire, normally open, 2-wire
Short-circuit protection	yes / cyclic
Voltage drop at I _e	≤ 4.2V
Wire breakage / Reverse polarity protection	no / polarized
Housing	threaded barrel, M12 x 1
Dimensions	64 mm
Housing material	metal, CuZn, chrome-plated
Material active face	plastic, PA12-GF30
Connection	cable
Cable quality	Ø 5.2, LiYY-11Y, PUR, 2 m
Cable cross section:	2 x 0.34mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Degree of protection	IP67
Display switch state	LED yellow
Diameter of the active area B	Ø 12 mm



magnet-inductive proximity sensor
BIM-M12E-AG4X

Accessories

Type code	Ident-No.	Short text	Dimension drawing
DMR20-10-4	6900214	actuation magnet; Ø 20 mm (Ø 4 mm), h: 10 mm; sensing range 59 mm on BIM-(E)M12 sensors resp. 50 mm on BIM-EG08 sensors; in combination with Q25L: recommended distance between sensor and magnet: 3 ... 4mm	
DMR31-15-5	6900215	actuation magnet, Ø 31 mm (Ø 5 mm), h: 15 mm; sensing range 90 mm on BIM-(E)M12 sensors resp. 78 mm on BIM-EG08 sensors; in combination with Q25L: recommended distance between sensor and magnet: 3 ... 5mm	
DMR15-6-3	6900216	actuation magnet, Ø 15 mm (Ø 3 mm), h: 6 mm; sensing range 36 mm on BIM-(E)M12 sensors resp. 32 mm on BIM-EG08 sensors; in combination with Q25L: recommended distance between sensor and magnet: 3 ... 4mm	
DM-Q12	6900367	actuation magnet; rectangular plastic; sensing range 58 mm on BIM-(E)M12 sensors resp. 49 mm on BIM-EG08 sensors; in combination with Q25: recommended distance between sensor and magnet: 3 ... 5mm	
BSS-12	6901321	fixing clamp; material: polypropylene	
MW-12	6945003	mounting bracket; material: stainless steel A2 1.4301 (AISI 304)	