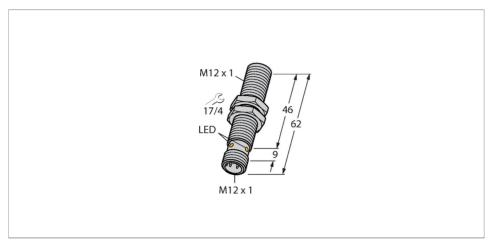


BIM-M12E-AG4X-H1144 Magnetic Field Sensor - Magnetic-inductive Proximity Sensor





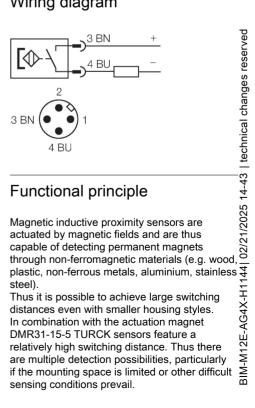
Type	BIM-M12F-AG4X-H1144	
Туре		
ID	1579910	
General data		
Rated switching distance	90 mm	
	In conjunction with magnet DMR31-15-5	
Repeat accuracy	≤ 0.3 % of full scale	
Temperature drift	≤ ±15 %	
Hysteresis	110 %	
Electrical data		
Operating voltage U _B	1065 VDC	
DC rated operating current I _e	≤ 200 mA	
Residual current	≤ 0.8 mA	
Isolation test voltage	0.5 kV	
Short-circuit protection	yes/Cyclic	
Voltage drop at I _e	≤ 4.2 V	
Wire break/reverse polarity protection	no/Polarized	
Output function	2-wire, NO contact, 2-wire	
Smallest operating current	≥ 3 mA	
Switching frequency	0.3 kHz	
Mechanical data		
Design	Threaded barrel, M12 x 1	
Dimensions	62 mm	
Housing material	Metal, CuZn, Chrome-plated	
	Plastic, PBT-GF30	



Features

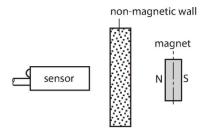
- ■Threaded barrel, M12 x 1
- Chrome-plated brass
- ■Rated operating distance 90 mm with DMR31-15-5 magnet
- ■DC 2-wire, 10...65 VDC
- Polarized version
- ■NO contact
- Male connector M12 x 1

Wiring diagram



Technical data

Max. tightening torque of housing nut	10 Nm	
Electrical connection	Connector, M12 × 1	
Environmental conditions		
Ambient temperature	-25+70 °C	
Vibration resistance	55 Hz (1 mm)	
Shock resistance	30 g (11 ms)	
Protection class	IP67	
MTTF	2283 years acc. to SN 29500 (Ed. 99) 40 °C	
Switching state	LED, Yellow	



Mounting instructions

Mounting instructions/Description		
	Diameter active area B	Ø 12 mm

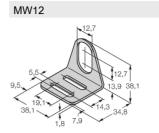
Accessories

DMR20-10-4	6900214	DMR31-15-5	6900215
N → S 0 4 0 20 	Actuation magnet; Ø 20 mm (Ø 4 mm), h: 10 mm; attainable switching distance 59 mm on BIM-(E)M12 magnetic field sensors or 50 mm on BIM-EG08 magnetic field sensors; for Q25L linear position sensors: recommended distance between the sensor and magnet: 34 mm	0 5 0 31	Actuation magnet, Ø 31 mm (Ø 5 mm), h: 15 mm; attainable switching distance 90 mm on BIM-(E)M12 magnetic field sensors or 78 mm on BIM-EG08 magnetic field sensors; for Q25L linear position sensors: recommended distance between the sensor and magnet: 35 mm
DMR15-6-3	6900216	DM-Q12	6900367
N → S 0 3 0 15	Actuation magnet, Ø 15 mm (Ø 3 mm), h: 6 mm; attainable switching distance 36 mm on BIM-(E)M12 magnetic field sensors or 32 mm on BIM-EG08 magnetic field sensors; for Q25L linear position sensors: recommended distance between the sensor and magnet: 34 mm	2× M3 0 3,1 2× M3 20 17 16 14	Actuator, rectangular, plastic, attainable switching distance 58 mm on BIM-(E)M12 magnetic field sensors or 49 mm on BIM-EG08 magnetic field sensors; for Q25L linear position sensors: recommended distance between the sensor and magnet: 35 mm



BSS-12 6901321

Mounting clamp for smooth and threaded barrel sensors; material: Polypropylene



6945003

Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)