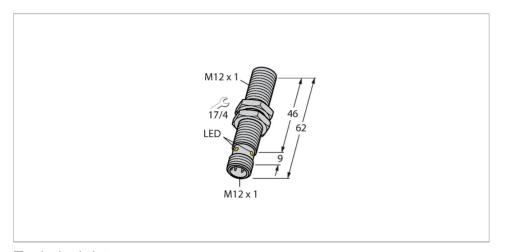


BIM-M12E-AG4X-H1144 Magnetic Field Sensor - Magnetic-inductive Proximity Sensor



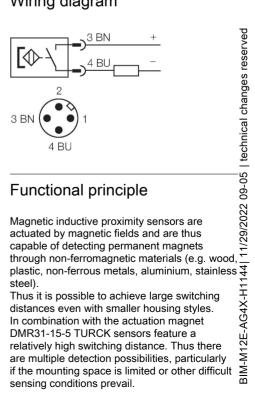
Technical data

Туре	BIM-M12E-AG4X-H1144
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	1065 VDC
DC rated operational current	≤ 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 breakage/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 × 1
Dimensions	62 mm
Housing material	Metal, CuZn, Chrome-plated
Active area material	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

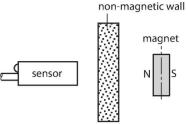
Wiring diagram



TURCK

Technical data

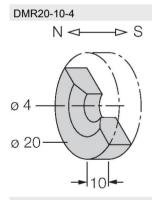
Max. tightening torque of housing nut	10 Nm	
Electrical connection	Connector, M12 × 1	
Environmental conditions		
Ambient temperature	-25+70 °C	
Vibration resistance	55 Hz (1 mm)	
Shock resistance	30 g (11 ms)	
Protection class	IP67	
MTTF	2283 years acc. to SN 29500 (Ed. 99) 40 °C	
Switching state	LED,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



Mounting instructions

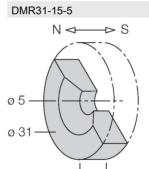
Mounting instructions/Description		
	Diameter active area B	Ø 12 mm

Accessories



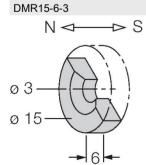
6900214

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: 3...4 mm



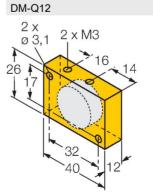
6900215

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: 3...5 mm



6900216

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: 3...4 mm



6900367

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: 3...5 mm

6945003

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

MW-12

12.7

9.5

13.9

14.3

38.1

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