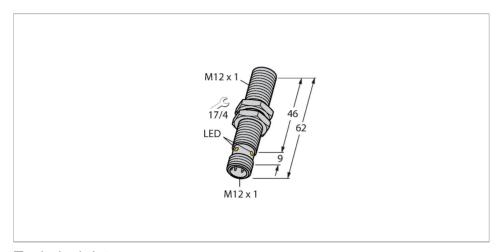


BIM-M12E-AP4X-H1141/S97 Magnetic Field Sensor - Magnetic-inductive Proximity Sensor



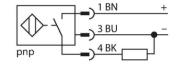
Technical data

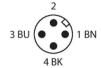
Type	BIM-M12E-AP4X-H1141/S97		
Type			
Ident. no.	1579908		
Rated switching distance	90 mm		
	In conjunction with magnet DMR31-15-5		
Repeat accuracy	≤ 0.3 % of full scale		
Temperature drift	≤ ± 15 %		
	≤ ± 20 %, ≤ -25 °C		
Hysteresis	110 %		
Ambient temperature	-40+70 °C		
Operating voltage	1065 VDC		
Residual ripple	≤ 10 % U _{ss}		
DC rated operational current	≤ 200 mA		
No-load current	≤ 15 mA		
Residual current	≤ 0.1 mA		
Isolation test voltage	≤ 0.5 kV		
Short-circuit protection	yes / Cyclic		
Voltage drop at I _e	≤ 1.8 V		
Wire breakage/Reverse polarity protection	yes / Complete		
Output function	3-wire, NO contact, PNP		
Switching frequency	1 kHz		
Design	Threaded barrel, M12 × 1		
Dimensions	62 mm		
Housing material	Metal, CuZn, Chrome-plated		
Active area material	Plastic, PBT-GF30		

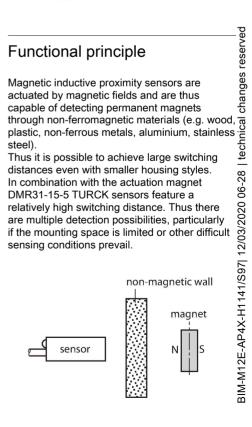
Features

- ■Threaded barrel, M12 x 1
- Chrome-plated brass
- ■For temperatures up to -40 °C
- Rated operating distance 90mm with
- DMR31-15-5 magnet ■DC 3-wire, 10...65 VDC
- ■NO contact, PNP output
- Male connector, M12 x 1

Wiring diagram









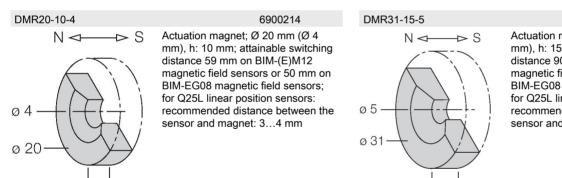
Technical data

Max. tightening torque of housing nut	10 Nm
Electrical connection	Connector, M12 × 1
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

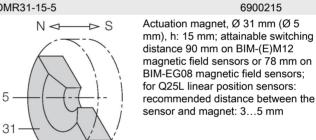
Mounting instructions

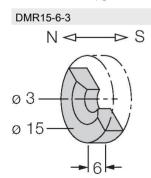
Mounting instructions/Description			
	Diameter active area B	Ø 12 mm	

Accessories

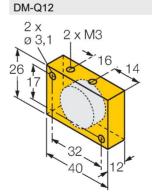


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Actuation magnet, Ø 15 mm (Ø 3 mm), h: 6 mm; attainable switching distance 36 mm on BIM-(E)M12 magnetic field sensors or 32 mm on BIM-EG08 magnetic field sensors; for Q25L linear position sensors: recommended distance between the sensor and magnet: 3...4 mm



15

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

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

MW-12

Mounting bracket for threaded barrel sensors; material: Stainless steel A2

1.4301 (AISI 304)