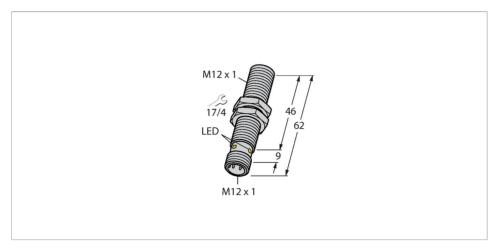


BIM-M12E-AN4X-H1141 Magnetic Field Sensor - Magnetic-inductive Proximity Sensor



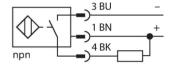
Technical data

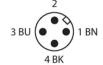
Туре	BIM-M12E-AN4X-H1141	
ldent. no.	1579914	
Rated switching distance	90 mm	
	In conjunction with magnet DMR31-15-5	
Repeat accuracy	≤ 0.3 % of full scale	
Temperature drift	≤ ± 15 %	
Hysteresis	110 %	
Ambient temperature	-25+70 °C	
Operating voltage	1065 VDC	
Residual ripple	≤ 10 % U _{ss}	
DC rated 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, NPN	
Switching frequency	1 kHz	
Design	Threaded barrel, M12 \times 1	
Dimensions	62 mm	
Housing material	Metal, CuZn, Chrome-plated	
Active area material	Plastic, PBT-GF30	
Max. tightening torque housing nut	10 Nm	

Features

- Threaded barrel, M12 x 1
- Chrome-plated brass
- Rated operating distance 90 mm with DMR31-15-5 magnet
- DC 3-wire, 10...65 VDC
- NO contact, NPN output
- Male connector, M12 x 1

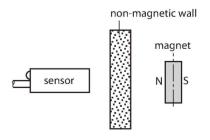
Wiring diagram





Functional principle

Magnetic inductive proximity sensors are actuated by magnetic fields and are thus capable of detecting permanent magnets through nonferromagnetic materials (e.g. wood, plastic, nonferrous 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 TURCK sensors feature a relatively high switching distance. Thus there are multiple detection possibilities, particularly if the mounting space is limited or other difficult sensing conditions prevail. by magnetic fields and are thus capable of





Technical data

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 Ø 12 mm

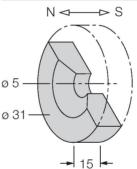
Accessories

DMR20-10-4 N → S Ø 4 Ø 20

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

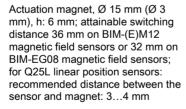
DMR15-6-3

ø3

ø 15

N 🗗

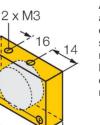
6900216



DM-Q12 2 x

ø 3,1

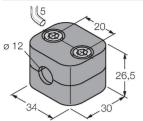
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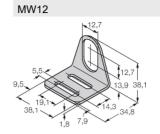
6900367

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



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

Wiring accessories

Dimension drawing	Туре	ldent. no.	
	RKC4T-2/TEL	6625010	Connection cable, fer



Connection cable, female M12, straight, 3-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com