

BIM-M12E-AP6X-H1141/S1751 Magnetic Field Sensor - Magnetic-inductive Proximity Sensor With FM Approval





Туре	BIM-M12E-AP6X-H1141/S1751
ID	4681289
Special version	S1751 corresponds to: FM approval
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	1030 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	≤ 1.8 V
Wire breakage/Reverse polarity protection	yes / Complete
Output function	3-wire, NO contact, PNP
Switching frequency	1 kHz



Features

Threaded barrel, M12 x 1

- Chrome-plated brass
- Rated operating distance 90 mm with
 - DMR31-15-5 magnet
- DC 3-wire, 10...30 VDC
- NO contact, PNP output
- Male connector. M12 x 1





distances even with smaller housing styles.



Technical data

Mechanical data

Housing material

Active area material

Electrical connection

Ambient temperature

Vibration resistance

Shock resistance

Protection class

Switching state

MTTF

Environmental conditions

Max. tightening torque of housing nut

Design

Dimensions

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.



Threaded barrel, M12 × 1



Mounting instructions

Mounting instructions/Description

Diameter active Ø 1 area B

Ø 12 mm

Accessories



6900214

°C

LED, Yellow

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



DMR31-15-5

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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





Dimension drawing Type ID RKC4T-2/TEL 6625010 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