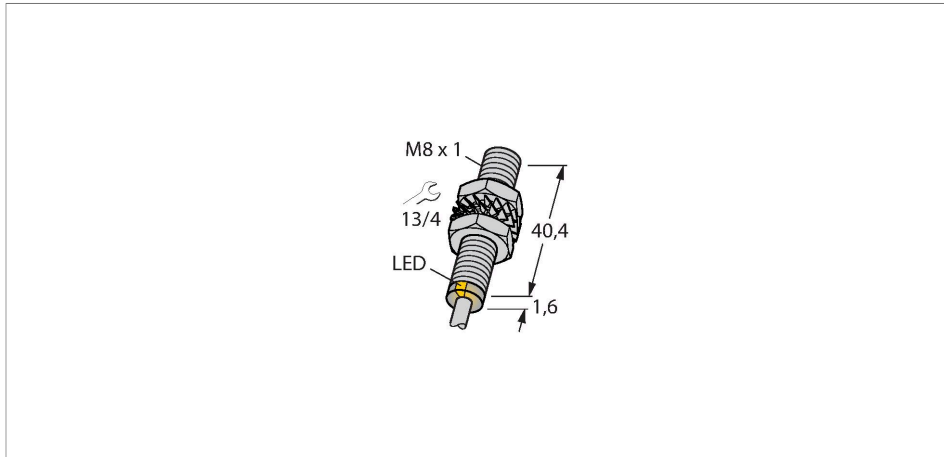


BIM-EG08-AP6X

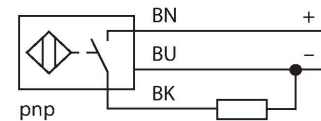
Magnetic Field Sensor – Magnetic-inductive Proximity Sensor



Features

- M8 × 1 threaded barrel
- Stainless steel, 1.4427 SO
- Rated operating distance 78 mm with DMR31-15-5 magnet
- DC 3-wire, 10...30 VDC
- NO contact, PNP output
- Cable connection

Wiring diagram



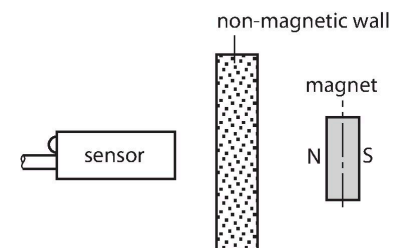
Technical data

| | |
|---|---------------------------------------|
| Type | BIM-EG08-AP6X |
| ID | 4621310 |
| General data | |
| Rated switching distance | 78 mm |
| | In conjunction with magnet DMR31-15-5 |
| Repeat accuracy | ≤ 0.3 % of full scale |
| Temperature drift | ≤ ±10 % |
| Hysteresis | 1...10 % |
| Electrical data | |
| Operating voltage | 10...30 VDC |
| Residual ripple | ≤ 10 % U _{ss} |
| DC rated operational current | ≤ 150 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 _o | ≤ 1.8 V |
| Wire breakage/Reverse polarity protection | yes / Complete |
| Output function | 3-wire, NO contact, PNP |
| Switching frequency | 1 kHz |
| Mechanical data | |
| Design | Threaded barrel, M8 x 1 |
| Dimensions | 41.6 mm |
| Housing material | Stainless steel, 1.4427 SO |

Functional principle

Magnetic inductive proximity sensors are actuated by magnetic fields and are thus capable of detecting permanent magnets through non-ferromagnetic materials (e.g. wood, plastic, non-ferrous 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.



Technical data

| | |
|---------------------------------------|--|
| Active area material | Plastic, PA12-GF30 |
| End cap | Plastic, PP |
| Max. tightening torque of housing nut | 5 Nm |
| Electrical connection | Cable |
| Cable quality | Ø 4 mm, LifYY-11Y, PUR, 2 m |
| Core cross-section | 3 x 0.25 mm ² |
| 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 8 mm |
|-----------------------------------|------------------------|--------|

Accessories

DMR20-10-4 6900214

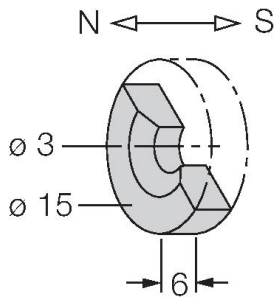
Actuation magnet; Ø 20 mm (Ø 4 mm), h: 10 mm; attainable switching distance 59 mm on BIM-(E)M12 magnetic field sensors or 50 mm on BIM-EG08 magnetic field sensors; for Q25L linear position sensors: recommended distance between the sensor and magnet: 3...4 mm

DMR31-15-5 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

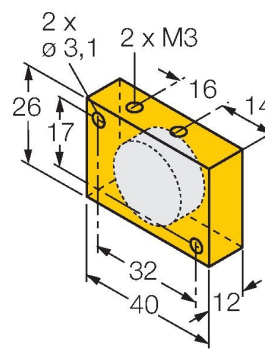
6900216



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

DM-Q12

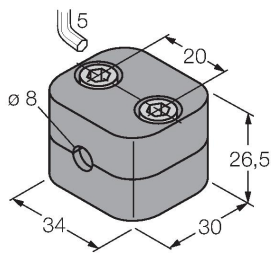
6900367



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

BSS-08

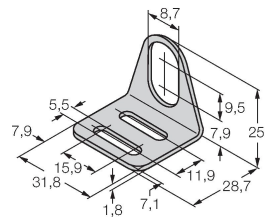
6901322



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

MW-08

6945008



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