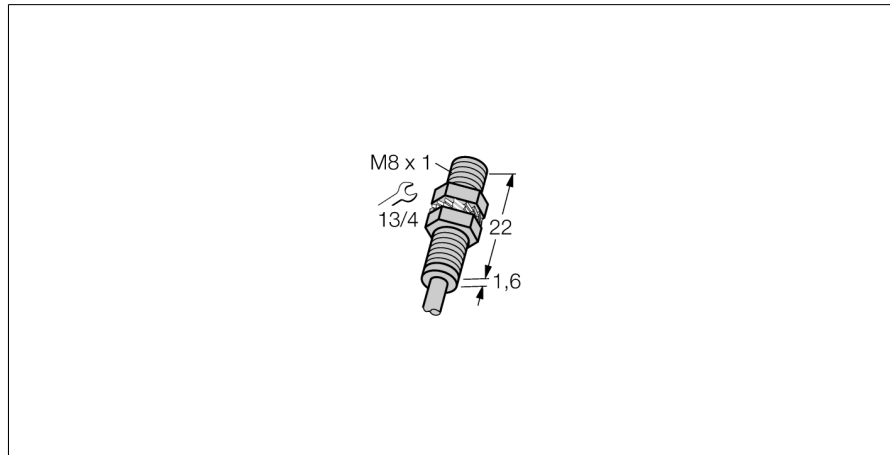
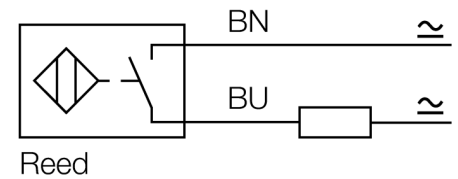


# Magnetic Field Sensor BR-EG08K-ADZ71



- M8 × 1 threaded barrel
- Stainless steel, 1.4427 SO
- Reed contact (non-polarized)
- AC 2-wire, 3...140 VAC
- DC 2-wire, 4...200 VDC
- Cable connection

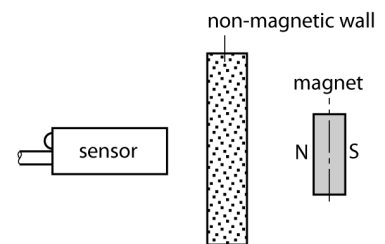
### Wiring Diagram



### Functional principle

Magnetic inductive proximity switches are actuated by magnetic fields. They detect permanent magnets through non-ferromagnetic materials such as wood, plastic, non-ferrous metals, aluminium or stainless steel.

Even small-sized versions achieve large switching distances. In combination with the actuation magnet DMR31-15-5 TURCK sensors obtain a relatively high switching distance. Thus there are multiple detection possibilities, particularly if the mounting space is limited or other difficult sensing conditions prevail.



Type	BR-EG08K-ADZ71
ID	4700520
<b>General data</b>	
Pass speed	≤ 10 m/s
Repeatability	≤ ± 0.1 mm
Temperature drift	≤ 0.1 mm
Hysteresis	≤ 1 mm
<b>Electrical data</b>	
Operating voltage U <sub>a</sub>	3...140VAC
Operating voltage U <sub>e</sub>	4...200 VDC
AC rated operational current	≤ 100 mA
DC rated operating current I <sub>e</sub>	≤ 100 mA
Switching capacity	≤ 10 W
Residual current	≤ 0 mA
Isolation test voltage	0.5 kV
Short-circuit protection	no
Voltage drop at I <sub>e</sub>	≤ 0.5 V
Wire break/reverse polarity protection	no/yes
Output function	2-wire, NO contact, Reed
Switching frequency	0.5 kHz
<b>Mechanical data</b>	
Design	Threaded barrel, M8 x 1
Dimensions	23.6 mm
Housing material	Stainless steel, 1.4427 SO
Active area material	Plastic, PA12-GF20
End cap	Plastic, PP
Max. tightening torque of housing nut	5 Nm
Electrical connection	Cable
Cable quality	Ø 3mm, Gray, Lif9Y-11Y, PUR, 2 m
Core cross-section	2 x 0.14 mm <sup>2</sup>
<b>Environmental conditions</b>	
Ambient temperature	-25...+90 °C
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67

## Accessories

Type code	Ident-No.		Dimension drawing
DMR20-10-4	6900214	Actuation magnet; $\varnothing$ 20 mm ( $\varnothing$ 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, $\varnothing$ 31 mm ( $\varnothing$ 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, $\varnothing$ 15 mm ( $\varnothing$ 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	
MW-08	6945008	Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)	
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	

**Function accessories**

Type code	Ident-No.		Dimension drawing
BSS-08	6901322	Mounting clamp for smooth and threaded barrel sensors; material: Polypropylene	