



Installation Instructions Magnetic sensor

efector120°

UK

ME / MFS / MGS / MGT / MN / MS

1 Preliminary note

1.1 Symbols used

- Instruction
- → Cross-reference
- Important note
 Non-compliance may result in malfunction or interference.

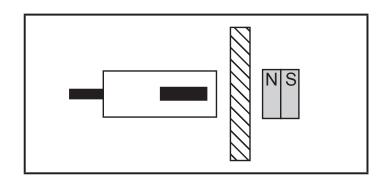
2 Function and features

The sensor reacts to magnetic fields. It detects a magnet without contact and signals its presence by means of an output signal.

The nominal sensing range (Sn) can be seen in the type designation on the type label on the unit (the value applies to a damping magnet M 4.0).

MEA3**060**-BPKG = nominal sensing range in mm

The sensor detects magnets through all non-magnetizable materials (e.g. non-ferrous metals, stainless steel, plastic, wood).



3 Installation

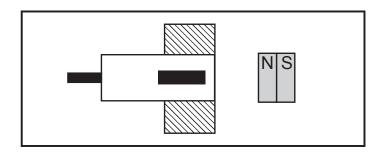
▶ Mount the sensor by means of amounting bracket or a mounting device.

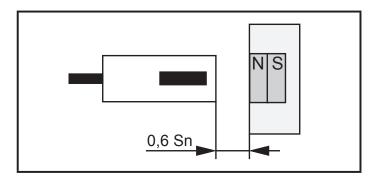
Flush mountable in all non-magnetizable materials.

When mounted in magnetizable materials an open space must be left:

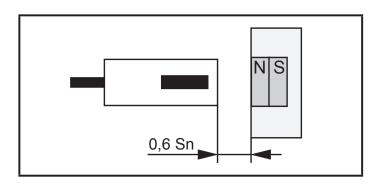
a = 10 mm (at Sn = 60 mm)

a = 15 mm (at Sn = 70 mm).

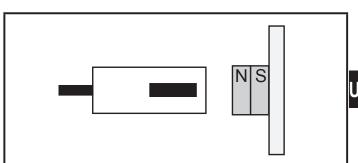




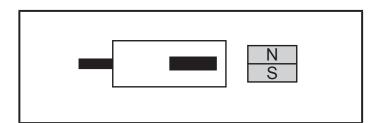
If the damping magnet is mounted flush in magnetizable material, the sensing range decreases to approx. 80 % of Sn.



If the damping magnet is mounted on magnetizable material, the sensing range may increase to 1.1 to 1.2 times the value.

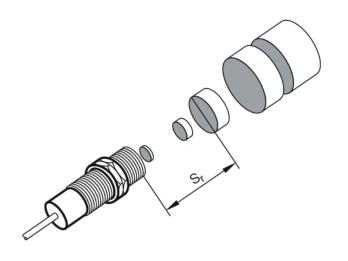


A second switch point may occur in case of horizontal orientation of the magnet.



3.1 Sensing range (Sr in mm) referred to magnets

	E10749	E10750	E10751	E10752	E10753	E10754	E11803	E12291
	M 1.0	M 2.0	M 3.0	M 4.0	M 5.0	M 5.1	M 4.1	M 3.1
ME	24	24	34	60	68	66	59	33
MF	24	24	34	60	68	66	59	33
MG	27	27	38	70	77	76	69	37
MS	24	24	34	60	68	66	59	33



4 Electrical connection

The sensor must be connected by a qualified electrician.

Observe the national and international regulations for the installation of electrical equipment.

- ▶ Disconnect power.
- ► Connect the unit as specified in the data sheet.

Core colours for units with cable connection: BN = brown, BU = blue, BK = black, WH = white.

5 Operation

► Check the safe functioning of the sensor.

The LED is lit when the output is switched.

More information at www.ifm.com