

ifm electronic



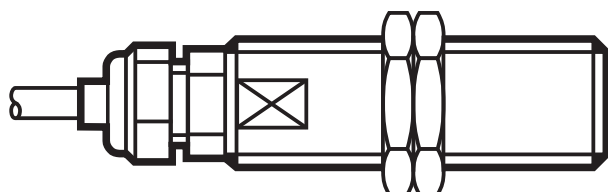
Installation Instructions
Magnetic sensor / Cylinder sensor

efector120[®]

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MGTxxx

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1 Preliminary note

1.1 Symbols used

► Instruction

→ Cross-reference



Important note

Non-compliance can result in malfunction or interference.



Information

Supplementary note.

2 Function and features

2.1 as magnetic sensor

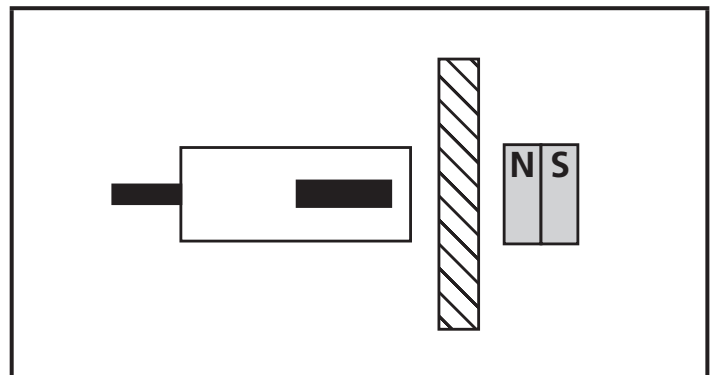
The sensor reacts to magnetic fields. It detects a magnet without contact and signals its presence by means of an output signal.

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

MGK2**030**-AKOA

— = nominal sensing range in mm

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



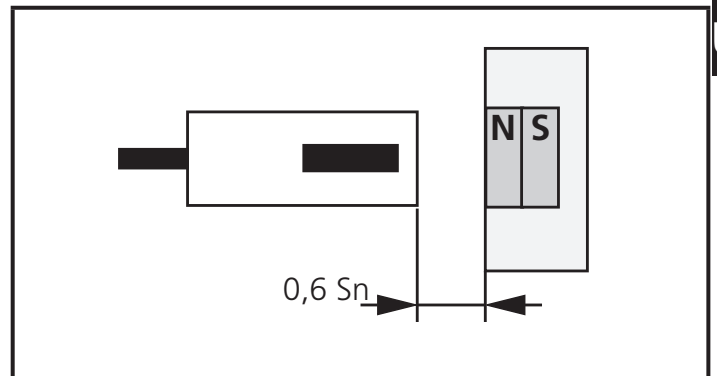
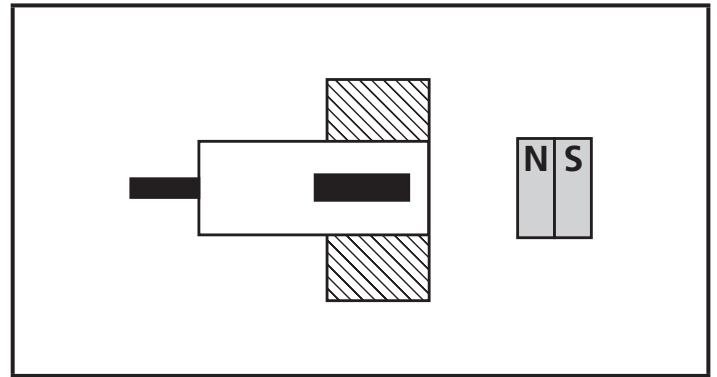
2.1.1 Installation

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

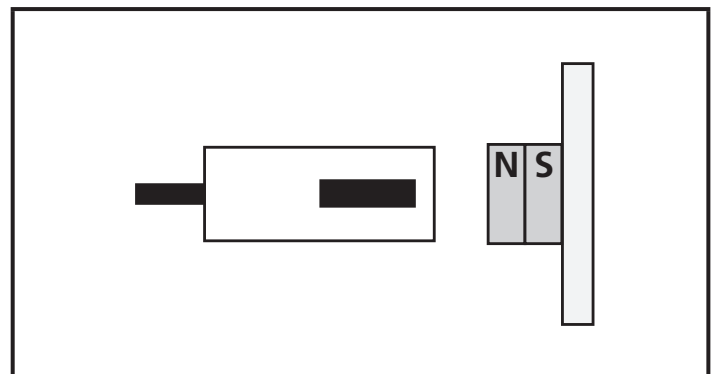
Flush mountable in all non-magnetizable materials.

If the damping magnet is mounted flush in magnetizable material, the sensing range decreases to approx. 60 % of S_n .

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



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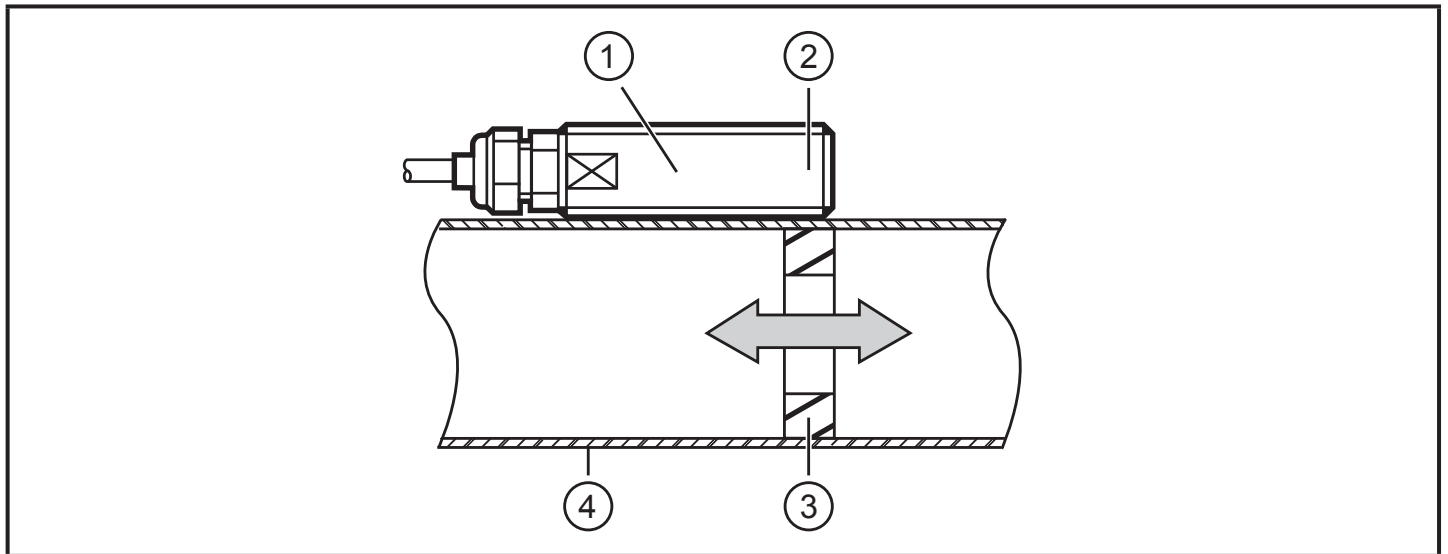


2.2 as cylinder sensor

The cylinder sensor signals the position of the piston in a cylinder. It detects a ring magnet in the piston of the cylinder when it passes the sensor and signals this by means of an output signal.

- Can be used on all commercial cylinders made of nonmagnetizable material.

2.2.1 Installation



- 1: Cylinder sensor
- 2: Sensing face
- 3: Cylinder piston with ring magnet
- 4: Cylinder wall

- Bring the cylinder piston into the detection position.
- Align the sensor precisely (position the active zone where the piston position is to be detected).
- Secure the sensor on the cylinder.

You can find a selection of mounting adapters at www.ifm.com/accessory.



If the cylinder is mounted in the immediate vicinity of magnetisable components, the switching characteristics of the sensor may change.

3 Electrical connection



The unit must be connected by a qualified electrician. The national and international regulations for the installation of electrical equipment must be adhered to.

- ▶ Disconnect power.
- ▶ Connect the unit according to the indications on the type label.

Core colours of ifm cable units:

BN = brown, BU = blue, BK = black, WH = white.

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Technical data and further information at www.ifm.com