

Features and Benefits

PHYSICAL STRENGTH

The MG Series offers Alnico or Indox magnets which exhibit good physical strength.

MAGNETIC FIELD

Rare Earth (SmCo-Samarium Cobalt) magnets from MG Series offer strong magnetic field in compact sizes.

Choose the best fit option

MAGNETIC MATERIAL

Honeywell's MG Series offer magnets made from different magnetic materials allowing customers to choose the most suitable option for their application.

OPERATING TEMPERATURE

The MG Series magnets exhibit good stability over a wide range of operating temperatures, as low as -40 °C [-40 °F] or as high as 140 °C [284 °F] to 300 °C [572 °F], depending on the magnet.

OPERATING MAGNETIC GAUSS LEVELS

The MG Series offers a wide selection of magnets operating across various magnetic Gauss levels to choose from.

Potential Applications



These magnets are used as actuators for Hall-effect and magnetoresistive sensor ICs which in turn can be used in a number of potential industrial and medical applications.

INDUSTRIAL

- **Door or lid closure detection in appliances or electronically controlled containers**

The unipolar sensor recessed in the door frame with a magnet embedded in the door can help in sensing the open and close positions in doors or lids in appliances or electronically controlled containers.

- **Simple speed and RPM (revolutions per minute) sensing in fitness and industrial equipment**

A single magnet of appropriate polarity mounted on the motor shaft of a treadmill when actuates a unipolar Hall-effect sensor IC generates single digital pulse for each revolution which in turn can help measure the speed or RPM of the equipment.

MEDICAL

- **Position sensor in hospital beds and medical equipment**

Magnets can be used to determine the home or end-of-travel position of the equipment on an activator arm of hospital beds and medical equipment.

- **Medication bin monitor on portable drug carts**

These magnets can be mounted on a drug dispensing drawer to detect the open or close position using a unipolar Hall-effect sensor IC.



MG Series

MAGNET CURVES

The curves shown on the graphs are typical plots of induction (Gauss) versus distance for various magnets.

Mode of operation: Head-on

Figure 1. 101MG2L1

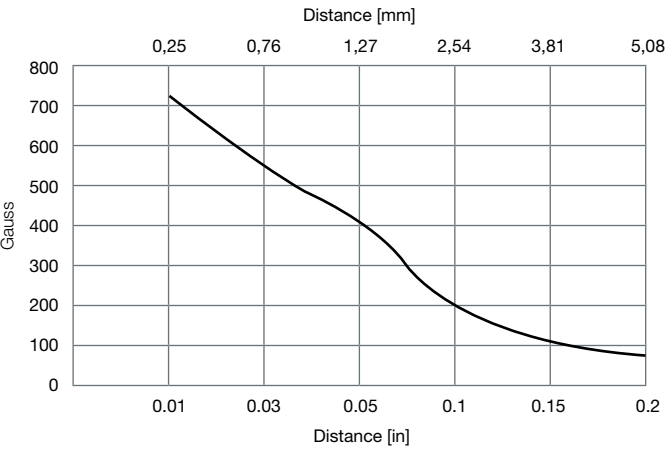


Figure 2. 101MG3

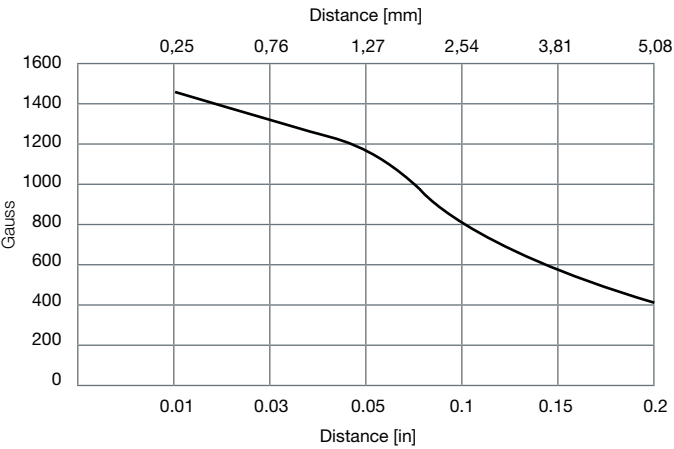


Figure 3. 101MG7

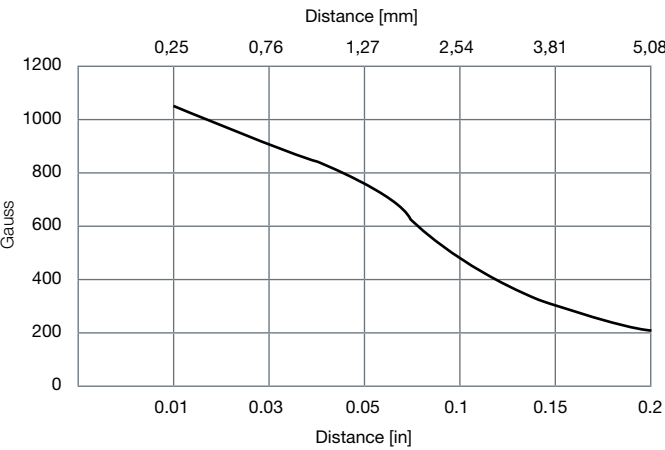


Figure 4. 101MG8

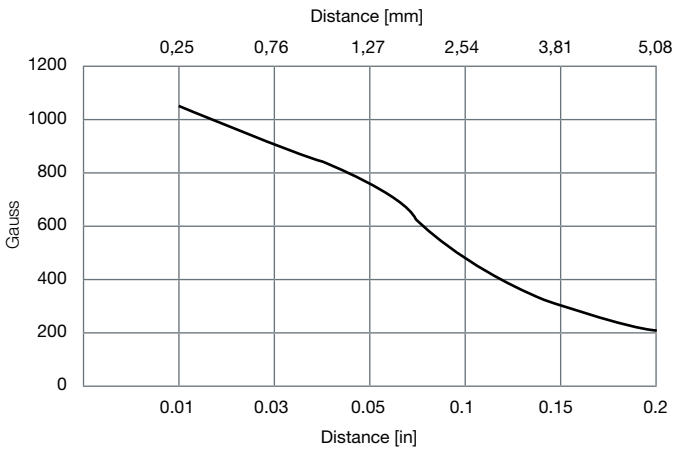


Figure 5. 102MG11

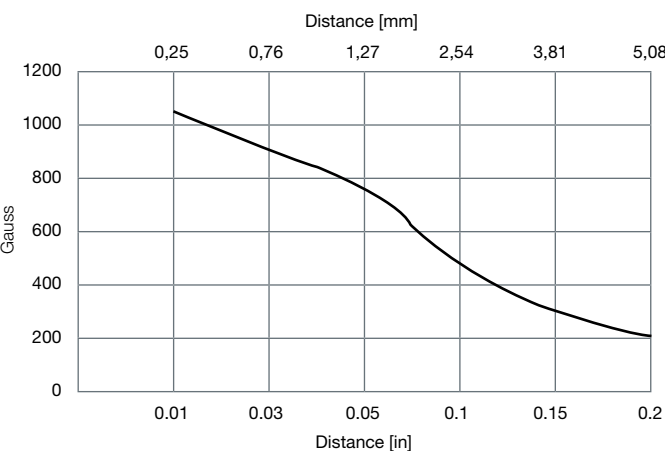


Figure 6. 102MG15

