

FEATURES

- Magnet for precise angle sensing
- Suitable for MagAlpha sensor family
- Optimized for end-of-shaft configurations

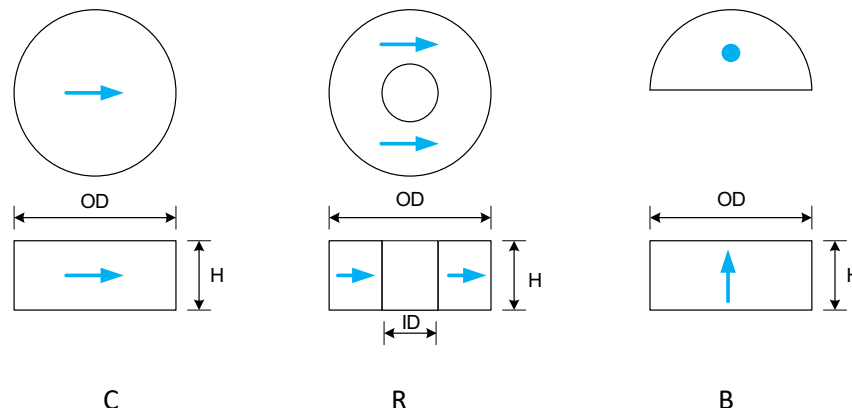
ORDERING INFORMATION

Part number: MAG10-X M-DD.DD.DD

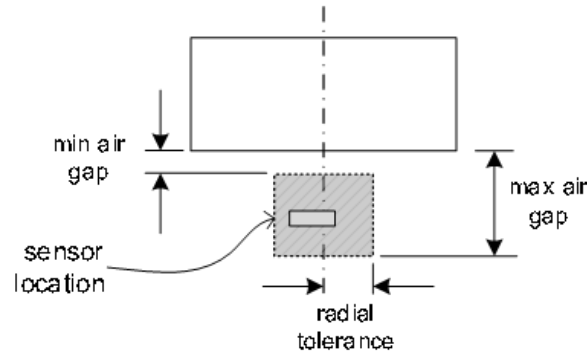


| Material code | Material | Br (T) | Hcj (kA/m) | Br Temperature coefficient (%/°C) | Max temperature (°C) | Coating |
|---------------|-------------------|--------|------------|-----------------------------------|----------------------|---------|
| 1 | NdFeB grade N35 | 1.22 | 960 | -0.12 | 80 | NiCuNi |
| 2 | NdFeB grade N35SH | 1.22 | 1595 | -0.12 | 150 | NiCuNi |
| 3 | Hard Ferrite | 0.4 | 318 | -0.2 | 200 | |

| Shape code | Geometry | Magnetization direction | Dimension in 0.1 mm | Note |
|------------|---------------|-------------------------|---------------------|---|
| C | Cylinder | Diametrical | OD.H | Large air gap range |
| R | Ring | Diametrical | OD.ID.H | Large tolerance to radial displacement |
| B | Half cylinder | Axial | OD.H | To be assembled by pairs (with opposite polarity). Low field emission |



AVAILABLE DIMENSIONS



| Part number | Magnet characteristics ⁽¹⁾ | | | | | Recommended sensor position | | |
|--------------------------|---------------------------------------|-------|---------|---------|--------|-------------------------------------|--------------------------------------|-------------------------------|
| | material | shape | OD (mm) | ID (mm) | H (mm) | Air gap ⁽²⁾ min-max (mm) | Radial tolerance ⁽³⁾ (mm) | ideal for |
| MAG10-2C-30.25 | N35SH | C | 3 | - | 2.5 | 0 - 2.0 | 0.1 | |
| MAG10-2C-40.25 | N35SH | C | 4 | - | 2.5 | 0 - 2.6 | 0.2 | |
| MAG10-2C-50.25 | N35SH | C | 5 | - | 2.5 | 0 - 3.1 | 0.2 | Standard size, cost effective |
| MAG10-2C-60.25 | N35SH | C | 6 | - | 2.5 | 0 - 3.6 | 0.3 | |
| MAG10-2C-80.25 | N35SH | C | 8 | - | 2.5 | 0 - 4.5 | 0.4 | |
| MAG10-2R-50.12.25 | N35SH | R | 5 | 1.25 | 2.5 | 1.0 - 1.4 | 0.4 | |
| MAG10-2R-60.15.25 | N35SH | R | 6 | 1.5 | 2.5 | 1.3 - 1.6 | 0.6 | Accurate application |
| MAG10-2R-80.20.25 | N35SH | R | 8 | 2.0 | 2.5 | 2.0 - 2.5 | 0.8 | |
| MAG10-2B-40.25 | N35SH | B | 4 | - | 2.5 | 0 - 2.1 | <0.1 | |
| MAG10-2B-50.25 | N35SH | B | 5 | - | 2.5 | 0 - 2.7 | <0.1 | For low field emission |
| MAG10-2B-60.25 | N35SH | B | 6 | - | 2.5 | 0 - 3.2 | <0.1 | |
| MAG10-2B-80.25 | N35SH | B | 8 | - | 2.5 | 0 - 4.2 | 0.1 | |

(1) Dimensional tolerances: ± 0.05 mm for all NdFeB magnets

(2) To achieve a field above 30 mT

(3) To limit the excess error at 0.5 deg. Assuming 5 deg tilt between sensor and magnet/magnetization.