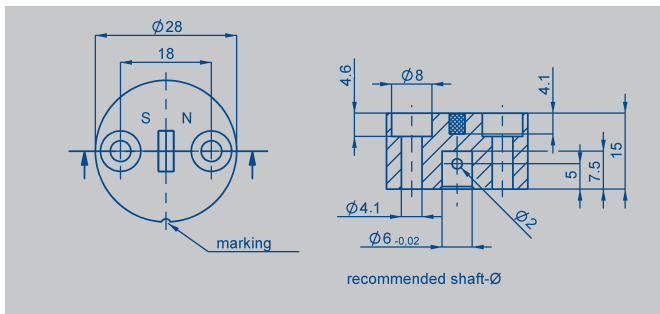
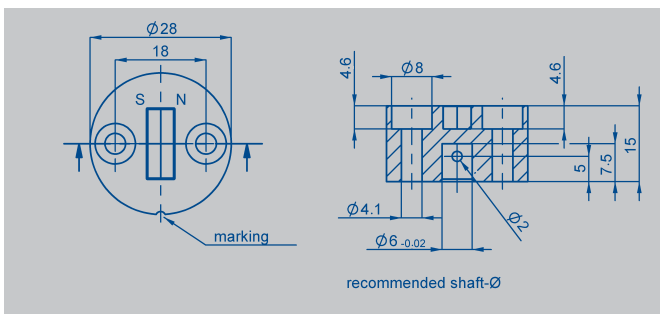


## Position Markers for touchless Rotary Sensors



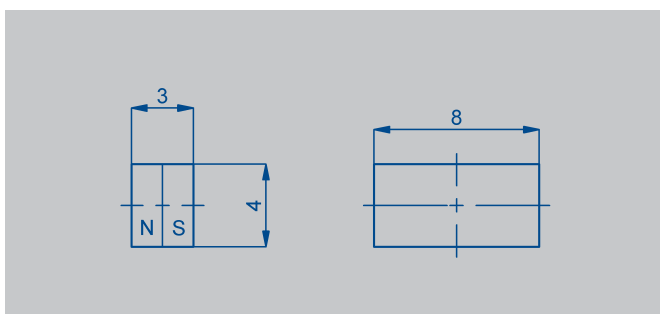
### Z-RFC-P01

- Position marker for frontal fixation with 2 screws or with locking pin
- Art.No. 005660
- Weight approx. 30 g
- Magnet constant  $1.85^\circ/\text{mm}^2$
- Max. permitted radial offset  $\pm 1.5$  mm



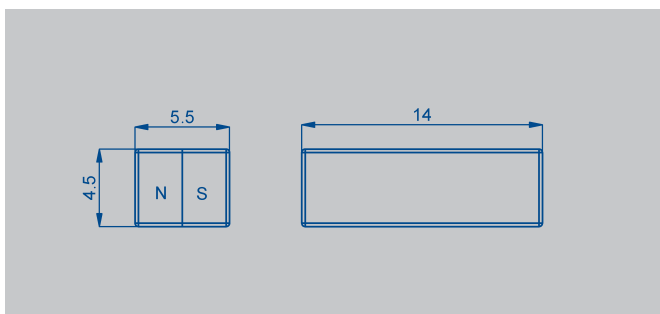
### Z-RFC-P02

- Position marker for frontal fixation with 2 screws or with locking pin
- Art.No. 005661
- Weight approx. 35 g
- Magnet constant  $0.8^\circ/\text{mm}^2$
- Max. permitted radial offset  $\pm 3$  mm



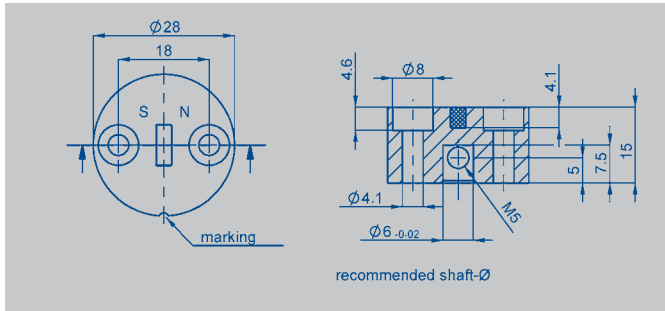
### Z-RFC-P03

- Magnet for direct application onto customer's shaft
- Art.No. 005658
- Weight approx. 1 g
- Magnet constant  $1.85^\circ/\text{mm}^2$
- Max. permitted radial offset  $\pm 1.5$  mm
- Packaging unit 100 pcs.



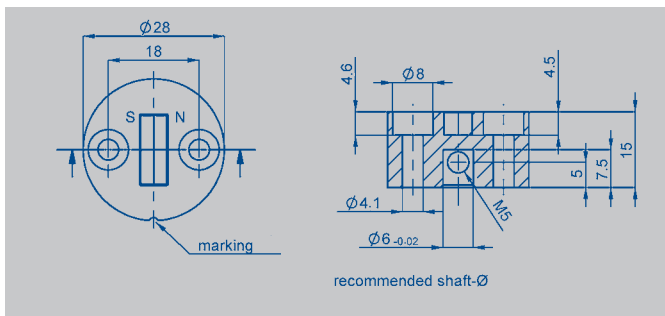
### Z-RFC-P04

- Magnet for direct application onto customer's shaft
- Art.No. 005659
- Weight approx. 2.5 g
- Magnet constant  $0.8^\circ/\text{mm}^2$
- Max. permitted radial offset  $\pm 3$  mm
- Packaging unit 100 pcs.



**Z-RFC-P07**

- Position marker for frontal fixation with 2 screws or with threaded pin M5
- Art.No. 056069
- Weight approx. 30 g
- Magnet constant 1.85°/mm<sup>2</sup>
- Max. permitted radial offset ±1.5 mm



**Z-RFC-P08**

- Position marker for frontal fixation with 2 screws or with threaded pin M5
- Art.No. 056070
- Weight approx. 35 g
- Magnet constant 0.8°/mm<sup>2</sup>
- Max. permitted radial offset ±3 mm

**Lateral magnet offset (will cause additional linearity error):**

The maximum error which is caused by lateral offset between sensor and position marker can be approximated as follows:

$$\text{Error } [^\circ] = \text{magnet constant} \times (\text{offset [mm]})^2$$

The magnet constant depends on the position marker.

Example: Z-RFC-P02:

magnet constant = 0.8 °/mm<sup>2</sup>;

offset = 0.5 mm

$$\text{Error } [^\circ] = 0.8^\circ/\text{mm}^2 \times (0.5 \text{ mm})^2 = 0.2^\circ$$

**Working distances (in mm)**

Sensor Series	Z-RFC... P01	P02	P03	P04	P07	P08
RFC model 600 / 700	0...1.5	0...4	0...1.5	0...4	0...1.5	0...4
RFA model 600	not recommended	not recommended	2 ±1	4.5 ±1.7	not recommended	nicht empfohlen
RFA model 700	not recommended	not recommended	1.6 ±1	4.1 ±1.7	not recommended	nicht empfohlen