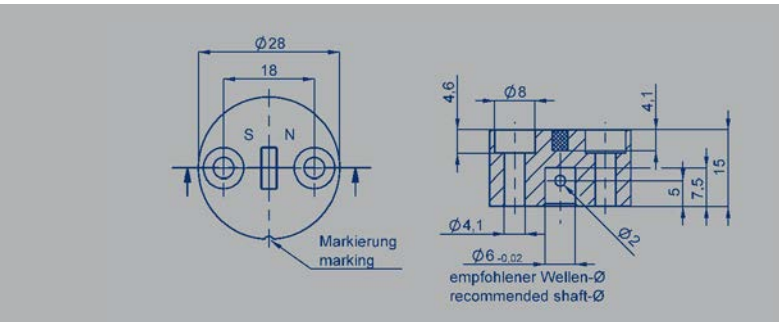
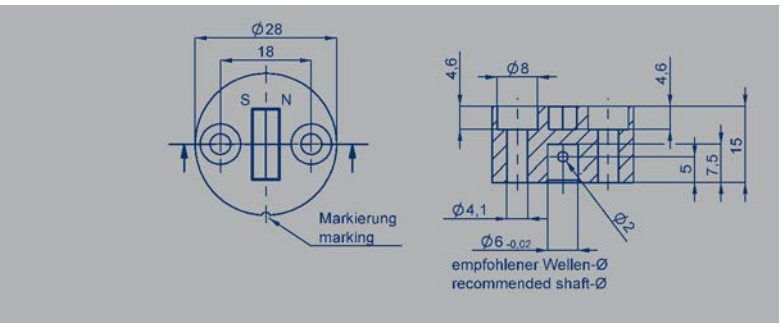
novotechnik
Siedle Group

Position Markers for touchless Rotary Sensors



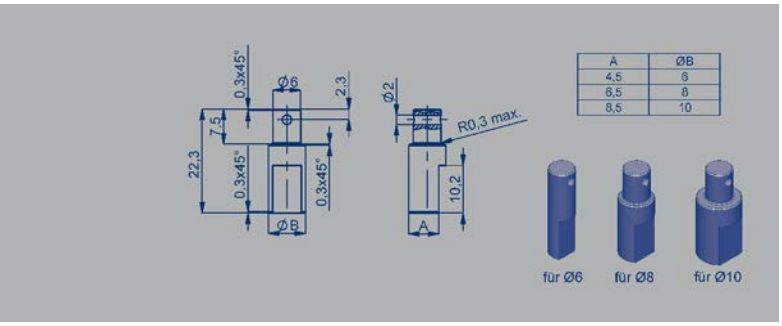
Z-RFC-P01
Position marker for frontal fixation with 2 screws or with locking pin

- magnet constant 1.85°/mm²
- max. permitted radial offset ±1.5 mm
- packaging unit 1 pcs. P/N 005660
- packaging unit 25 pcs. P/N 056079



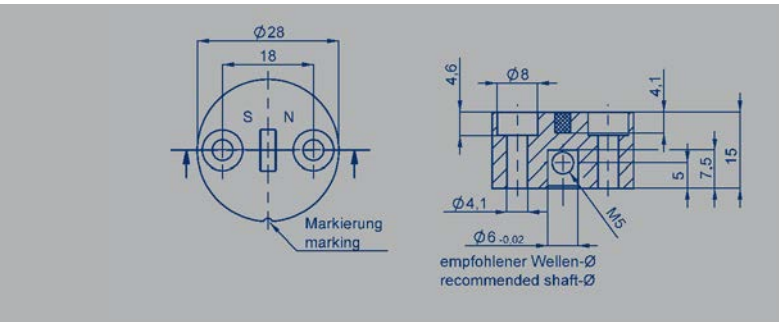
Z-RFC-P02
Position marker for frontal fixation with 2 screws or with locking pin

- magnet constant 0.8°/mm²
- max. permitted radial offset ±3 mm
- packaging unit 1 pcs. P/N 005661
- packaging unit 25 pcs. P/N 056080



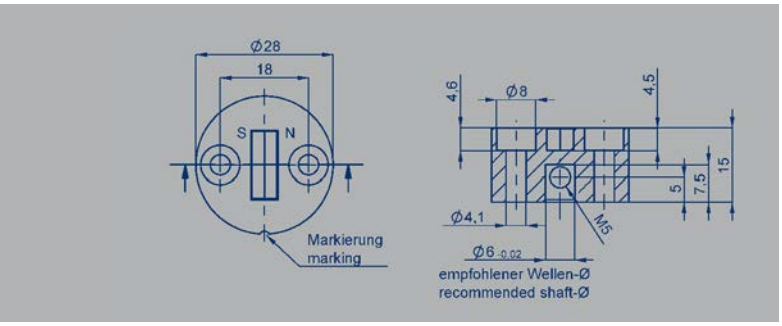
Z-RFC-S01 / Z-RFC-S02 / Z-RFC-S03
Shaft coupling for Z-RFC-P01 and Z-RFC-P02.
Fixation at position marker with locking pin

- Z-RFC-S01: Ø 6 mm, P/N 056206
- Z-RFC-S02: Ø 8 mm, P/N 056207
- Z-RFC-S03: Ø 10 mm, P/N 056208



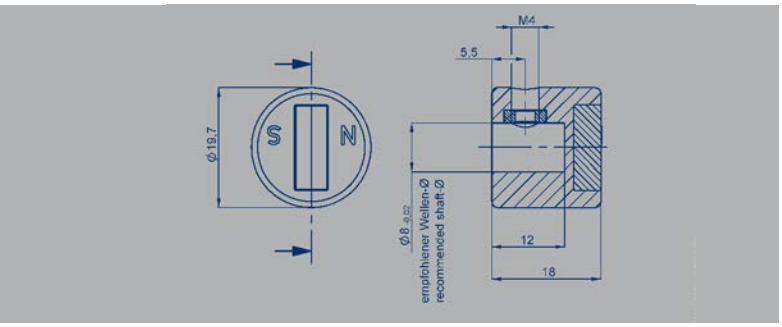
Z-RFC-P07
Position marker for frontal fixation with 2 screws or with threaded pin M5

- magnet constant 1.85°/mm²
- max. permitted radial offset ±1,5 mm
- packaging unit 1 pcs. P/N 056069
- packaging unit 25 pcs. P/N 056083



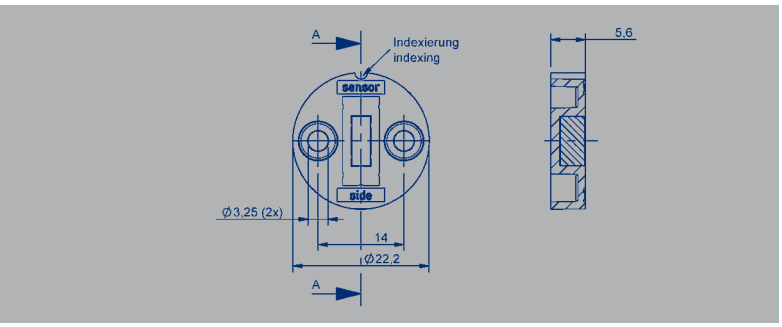
Z-RFC-P08
Position marker for frontal fixation with 2 screws or with threaded pin M5

- magnet constant 0.8°/mm²
- max. permitted radial offset ±3 mm
- packaging unit 1 pcs. P/N 056070
- packaging unit 25 pcs. P/N 056084



Z-RFC-P23
Position marker for fixation with threaded pin M4

- magnet constant 0.8°/mm²
- max. permitted radial offset ±3 mm
- packaging unit 1 pcs. P/N 056074
- packaging unit 25 pcs. P/N 056085

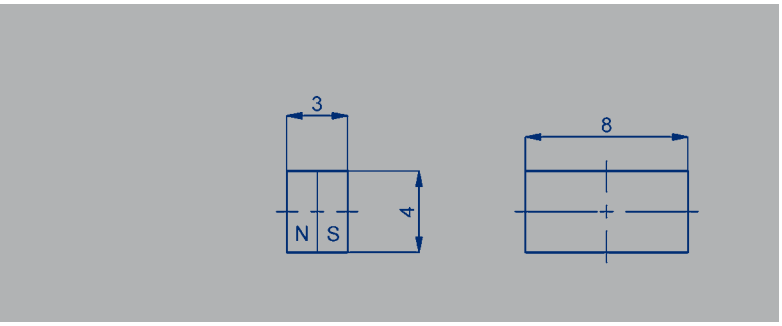


Z-RFC-P30
Position marker for frontal fixation with 2 screws

- magnet constant 1.85°/mm²
- max. permittet radial offset ±1.5 mm
- packaging unit 1pcs. P/N 056086
- packaging unit 25 pcs. P/N 056087

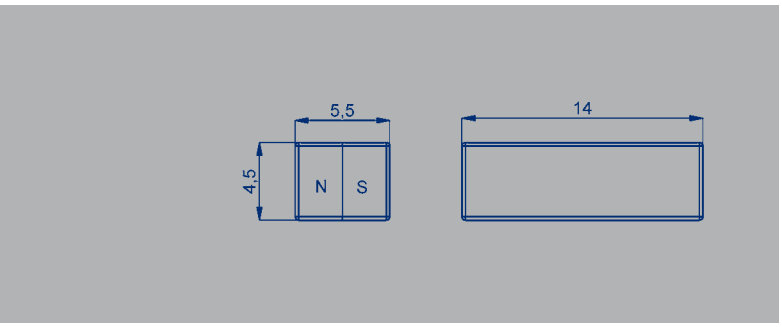
Working distances (in mm)

Sensor	Z-RFC-...							
Series	**P01**	**P02**	**P03**	**P04**	**P07**	**P08**	**P23**	**P30**
RFC analog / digital SPI	0...1,5	0...4	0...1,5	0...4	0...1,5	0...4	0...4	-
RFC digital SSI, Incremental	0...1	0...1,5	0...1	0...1,5	0...1	0...1,5	0...1,5	-
RFA one channel	-	-	2 ±1	4,5 ±1,7	-	-	4,5 ±1,7	-
RFA redundant	-	-	1,6 ±1	4,1 ±1,7	-	-	4,1 ±1,7	-
RFD one channel	-	-	2 ±1	4,5 ±1,7	-	-	4,5 ±1,7	1,95 ±0,75
RFD redundant	-	-	1,6 ±1	4,1 ±1,7	-	-	4,1 ±1,7	1,5 ±0,75



Z-RFC-P03
Magnet for direct application onto customer's shaft

- magnet constant 1.85°/mm²
- max. permitted radial offset ±1,5 mm
- packaging unit 1 pcs. P/N 005658
- packaging unit 50 pcs. P/N 056081



Z-RFC-P04
Magnet for direct application onto customer's shaft

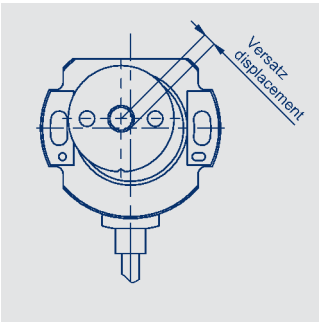
- magnet constant 0.8°/mm²
- max. permitted radial offset ±3 mm
- packaging unit 1 pcs. P/N 005659
- packaging unit 50 pcs. P/N 056082

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:

Error [°] = magnet constant x (offset [mm])²

The magnet constant depends on the position marker.

Example: Z-RFC-P02:
magnet constant = 0.8° /mm²;
offset = 0.5 mm
Error [°] = 0.8°/mm² x (0.5 mm)² = 0,2°



Mounting instructions Z-RFC-P03 / Z-RFC-P04
- If the shaft is magnetizable please keep sufficient distance
- When the magnet is mounted in the shaft, the shaft may not be magnetizable
- If the magnet is axially fixed on a magnetizable shaft the working distances reduces by approximately 20 %
- In general, we recommend mounting on not magnetizable materials, otherwise the stated working distances can change.