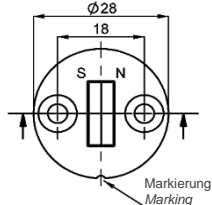
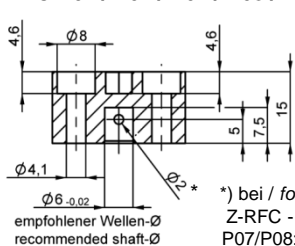


### Z-RFC-P01 / P02 / P07 / P08 / P41 / P47



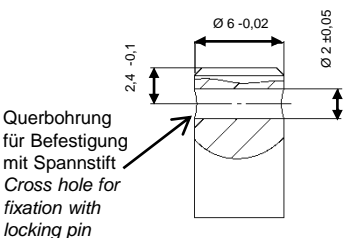
\*) bei / for  
Z-RFC -  
P07/P08:  
M5

#### Montagehinweise Installation instructions

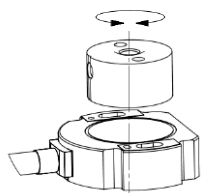
Axiale Montage mit  
2 Schrauben M4 x 20,  
max. Drehmoment 300 Ncm  
Radiale Montage mit  
Gewindestift M5,  
max. Drehmoment 120 Ncm

Axial mounting with  
2 screws M4 x 20, max.  
tightening torque 300 Ncm  
Radial mounting with  
threaded pin M5, max.  
tightening torque 120 Ncm

#### Bei / for Z-RFC-P01/-P02 Ausführung Welle (empfohlen) Recommended shaft setup

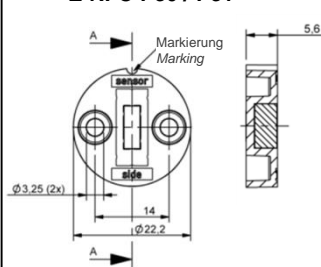


Querbohrung für Befestigung mit Spannstift  
Cross hole for fixation with locking pin



Indexpunkt  
Index position

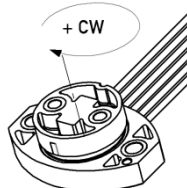
### Z-RFC-P30 / P31



#### Montagehinweise Installation instructions

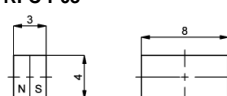
Axiale Montage mit  
2 Schrauben M3 x 8,  
max. Drehmoment 200 Ncm

Axial mounting with  
2 screws M3 x 8, max.  
tightening torque 200 Ncm

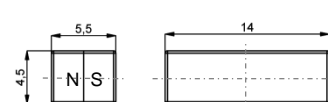


Indexpunkt  
Index position

### Z-RFC-P03



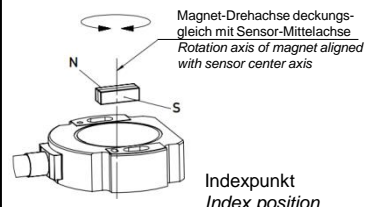
### Z-RFC-P04



#### Montagehinweise Installation instructions

Nicht mechanisch belasten. Einkleben mit anaerobem Klebstoff z.B. Weicon AN 306-30 in nichtmagnetisches Material (empfohlen, da sich sonst die Arbeitsabstände verringern).

Avoid mechanical load. Glue in place with anaerobic glue e.g. Weicon AN 306-30, in non-magnetizable material (recommended, otherwise the working distances will be reduced).



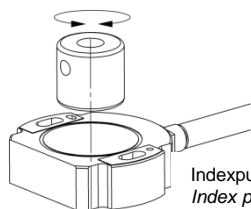
Indexpunkt  
Index position

### Z-RFC-P23 / P43

#### Ausführung Welle Shaft setup

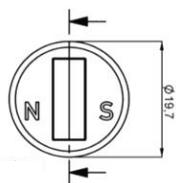
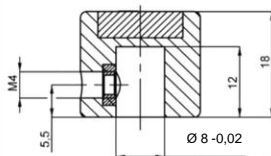
Eine Abflachung an der Schraubenauflage wird empfohlen für Befestigung mit Gewindestift

A flattening is recommended at screw pressing point for fixation with threaded pin



Indexpunkt  
Index position

Schraube = Markierung  
Screw = marking

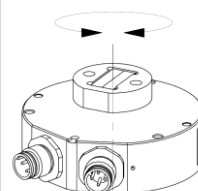


#### Montagehinweise Installation instructions

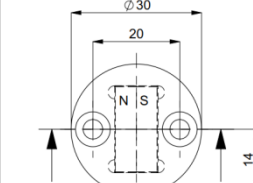
Radiale Montage mit Gewindestift M4, max. Drehmoment 100 Ncm (nach 5 Min. nachziehen für dauerhaft maximale Haltekraft)

Radial mounting with threaded pin M4, max. tightening torque 100 Ncm (retightening after 5 min. for permanent maximum holding force)

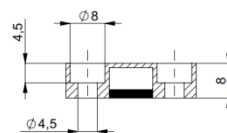
### Z-RFC-P22



Indexpunkt  
Index position



Markierung  
Marking

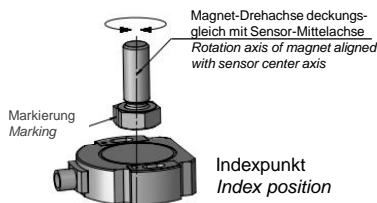


#### Montagehinweise / Installation instructions

Direkte Verschraubung oder Sicherung mit Befestigungsmutter. Eine Verdrehsicherung des Positionsgebers wird unbedingt empfohlen.

Directly screwed or secured by mounting nut.

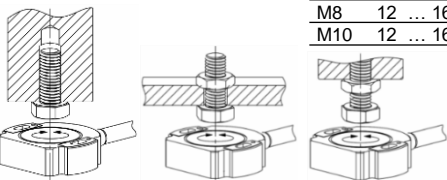
It is absolutely recommended to secure the position marker against rotation.



Indexpunkt  
Index position

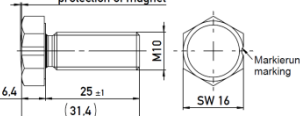
Max. Drehmoment / max. tightening torque  
Z-RFC-P16 Z-RFC-P18  
Z-RFC-P17 Z-RFC-P19  
Z-RFC-P20

M8	12 ... 16 Nm	6 Nm
M10	12 ... 16 Nm	10 Nm



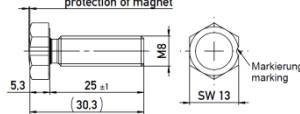
### Z-RFC-P16

- 0.5 Magnetschutz  
protection of magnet



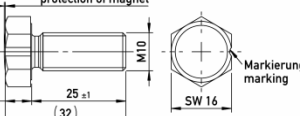
### Z-RFC-P17

- 0.5 Magnetschutz  
protection of magnet



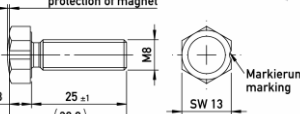
### Z-RFC-P18

- 0.2 Magnetschutz  
protection of magnet

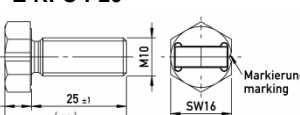


### Z-RFC-P19

- 0.2 Magnetschutz  
protection of magnet



### Z-RFC-P20



# Gebrauchsanleitung Positionsgeber für Winkelsensoren

## Manual Position Markers for Rotary Sensors

Arbeitsabstände (in mm) : Abstand zwischen Positionsgeber und Sensorgehäuse		Working distances (in mm) : distance between position marker and sensor housing													
Baureihe series	Schnittstelle interface	Z-RFC													
		P01/P07	P30	P03	P04	P23	P31	P20	P02/P08	P41/P47	P43	P22	P16/P18	P17/P19	
RFC-4801/4802/ 4861/4862	-6_ _ _ _ _ _ _ _ _ _ analog single -2_ _ - 8_ _ _ _ _ _ _ _ SPI	0 ... 1,5			0 ... 4						0 ... 2,7	-	0 ... 4,5	0 ... 2,2	
RFC-4853/4854	-6_ _ _ _ _ _ _ _ _ _ analog single	0 ... 1,5			0 ... 4						0 ... 2,7	4,4 ... 9,2	0 ... 4,5	0 ... 2,2	
RFC-4801/4802/ 4861/4862	-7_ _ _ _ _ _ _ _ _ _ analog red. -8_ _ _ _ _ _ _ _ _ _ analog red.	0 ... 1,5			0 ... 4						0 ... 2,3	-	0 ... 4	0 ... 1,7	
RFC-4853/4854	-7_ _ _ _ _ _ _ _ _ _ analog red. -8_ _ _ _ _ _ _ _ _ _ analog red.	0 ... 1,5			0 ... 4						0 ... 2,3	4 ... 8,8	0 ... 4	0 ... 1,7	
RFC-4801/4802	-2_ _ - 4_ _ _ _ _ _ _ SSI -2_ _ - 5_ _ _ _ _ _ _ Incremental	-			0 ... 1,4						-	-	-	-	
RFC-4851/4852	-6_ _ _ _ _ _ _ _ _ _ analog single -2_ _ - 61_ _ _ _ _ _ CAN single -2_ _ - 65_ _ _ _ _ _ CAN single -2_ _ - A_ _ _ _ _ _ _ IO-Link single	0,7 ... 2,2			2,3 ... 5						0 ... 2,7	4,4 ... 9,2	0 ... 4,5	0 ... 2,2	
RFC-4851/4852	-7_ _ _ _ _ _ _ _ _ _ analog red. -8_ _ _ _ _ _ _ _ _ _ analog red. -2_ _ - 62_ _ _ _ _ _ CAN red. -2_ _ - 66_ _ _ _ _ _ CAN red.	0,3 ... 1,8			1,9 ... 4,5						0 ... 2,3	4 ... 8,8	0 ... 4	0 ... 1,7	
RFC-4863/4864	-6_ _ _ _ _ _ _ _ _ _ analog single	0,7 ... 2,2			2,3 ... 5						0 ... 2,7	-	0 ... 4	0 ... 2,2	
RFC-4863/4864	-7_ _ _ _ _ _ _ _ _ _ analog red. -8_ _ _ _ _ _ _ _ _ _ analog red.	0,3 ... 1,8			1,9 ... 4,5						0 ... 2,3	-	0 ... 3,5	0 ... 1,7	
RFD-4021/4031	-6_ _ _ _ _ _ _ _ _ _ analog single	-	1,2 ... 2,7	1 ... 3	2,8 ... 6,2						-	0,9 ... 3,4	6,1...10,9	0 ... 5	0 ... 2,8
RFD-4021/4031	-7_ _ _ _ _ _ _ _ _ _ analog red. -8_ _ _ _ _ _ _ _ _ _ analog red.	-	0,7 ... 2,3	0,6 ... 2,6	2,8 ... 6,2						-	0,5 ... 2,9	5,6...10,4	0 ... 4,5	0 ... 2,3
RFX-6901	-6_ _ _ _ _ _ _ _ _ _ analog single -7_ _ _ _ _ _ _ _ _ _ analog red. -8_ _ _ _ _ _ _ _ _ _ analog red. -2_ _ - 62_ _ _ _ _ _ CAN red. -2_ _ - 66_ _ _ _ _ _ CAN red.	-			0,3 ... 3,5							2,6 ... 7,3	0 ... 2,5	-	
RFX-6901	-2_ _ - 61_ _ _ _ _ _ CAN single -2_ _ - 65_ _ _ _ _ _ CAN single	-			0,8 ... 4							2,9 ... 7,7	0 ... 3	-	
RFE-3201	-6_ _ _ _ _ _ _ _ _ _ analog single -2_ _ - 61_ _ _ _ _ _ CAN single -2_ _ - 65_ _ _ _ _ _ CAN single	-	0,4 ... 1,9		2 ... 4,7						-	0 ... 2,4	4,1 ... 8,9	0 ... 4	0 ... 1,8
RFE-3201	-7_ _ _ _ _ _ _ _ _ _ analog red. -8_ _ _ _ _ _ _ _ _ _ analog red. -2_ _ - 62_ _ _ _ _ _ CAN red. -2_ _ - 66_ _ _ _ _ _ CAN red.	-	0 ... 1,5		1,6 ... 4,2						-	0 ... 2	3,6 ... 8,4	0 ... 3,5	0 ... 1,3

Seitlicher Versatz von Sensor und Positionsgeber erzeugt eine zusätzliche Linearitätsabweichung.

Es ist daher auf konzentrischen Einbau zu achten.

Lateral offset of sensor and position marker causes an additional linearity error.

A concentric mounting has to be ensured.



Zusätzlicher Fehler [°] bei Radialversatz		Additional error [°] at radial displacement																	
Baureihe Series	Schnittstelle Interface	Z-RFC-P02 / P04 / P08 / P20 / P23 / P31			Z-RFC-P41 / P43 / P47			Z-RFC-P01 / P03 / P07 / P30			Z-RFC-P16 / P18			Z-RFC-P17 / P19			Z-RFC-P22		
		0,5 mm	1 mm	2 mm	0,5 mm	1 mm	2 mm	0,5 mm	1 mm	2 mm	0,5 mm	1 mm	2 mm	0,5 mm	1 mm	2 mm	1 mm	2 mm	4 mm
RFA-40	-6_ _ _ _ _ _ _ _ _ _ * analog single *																		
RFC-48	-2_ _ - 8_ _ _ _ _ _ _ _ SPI																		
RFD-40	-2_ _ - 61_ _ _ _ _ _ CAN single	0,4	1,1	3,5	0,4	1,1	3,5	1,4	3,7	-	0,7	1,3	3,3	1,3	2,6	-	0,8	1,8	5,4
RFE-32	-2_ _ - 65_ _ _ _ _ _ CAN single																		
RFX-69	-2_ _ - A_ _ _ _ _ _ _ IO-Link single																		
RFA-40	-7_ _ _ _ _ _ _ _ _ _ * analog red. *																		
RFC-48	-8_ _ _ _ _ _ _ _ _ _ * analog red. *																		
RFD-40	-2_ _ - 62_ _ _ _ _ _ CAN red.							2,5	6,4	-				2,3	4,5		1,1	2,4	6,7
RFE-32	-2_ _ - 66_ _ _ _ _ _ CAN red.	0,7	1,8	5,2	0,7	1,8	5,2				1,1	2	4,6						
RFX-69	-6_ _ _ _ _ _ _ _ _ _ analog single																		
RFX-69	-7_ _ _ _ _ _ _ _ _ _ analog red.																1,1	2,4	6,7
RFX-69	-8_ _ _ _ _ _ _ _ _ _ analog red.																		
RFC-48	-2_ _ - 4_ _ _ _ _ _ _ SSI	0,4	0,7	2,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RFC-48	-2_ _ - 5_ _ _ _ _ _ _ Incremental																		

\* außer RFX / except RFX