

Assembly Instruction for Kit Version (without shaft)

In default version for kit, 3mm magnet is provided for all standard versions. Also 2.5mm magnet with hole for redundant version is provided. Magnet holders of the suitable size are provided on request with magnet glued on it. Magnet holders which fit shaft diameters of 3.17mm, 4mm, 6mm, 6.35mm and 8mm are available. User can select the magnet holder according to shaft diameter for thier application. Fig B1 shows a magnet holder. Fig B2 shows a magnet glued on the magnet holder. Figure C1 to C4 shows magnet holders of different diameters.

Magnet Holder

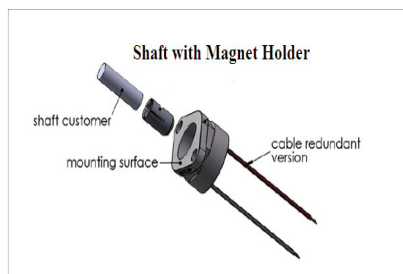


Fig A

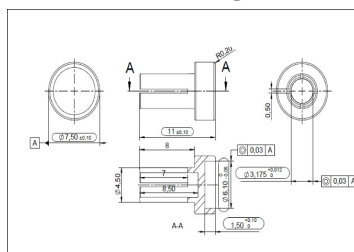


Fig C1

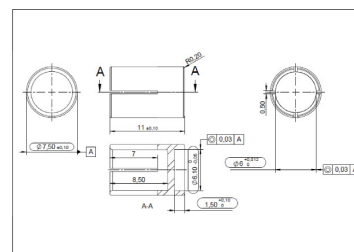


Fig C2



Fig B1



Fig B2

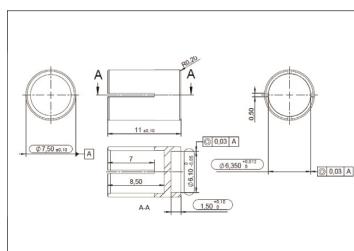


Fig C3

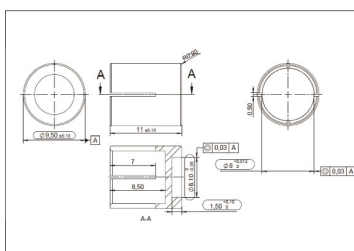


Fig C4

Following table shows the partcodes for different sizes of the magnet holders :

Sr. No	Size	Partcode
1	3.17 mm	340431
2	4 mm	340432
3	6 mm	340433
4	6.35 mm	340434
5	8 mm	340435

Procedure for assembly of kit version using magnet holder

1. Mark a line at distance of 6.6mm for Analog & SPI version, 5.6mm for Analog & SPI redundant version and for Incremental & SSI on the magnet holder from the shaft mounting edge (as shown in fig D) opposite to magnet.

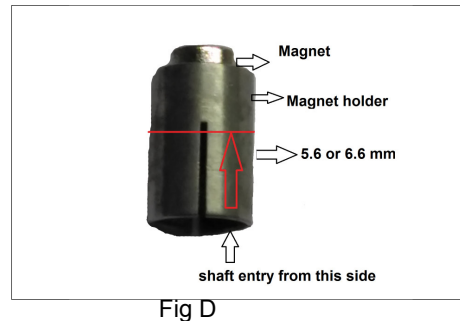


Fig D

2. Mount the magnet holder to the shaft.
3. Take the sensor & bring it concentric to the magnet holder mounted on shaft. Concentricity of magnet with inner diameter i.e blind hole should be maintained while assembling the encoder.
4. Match the line of distance of 5.6mm or 6.6 mm with the mounting surface of kit.
Refer fig D & E.

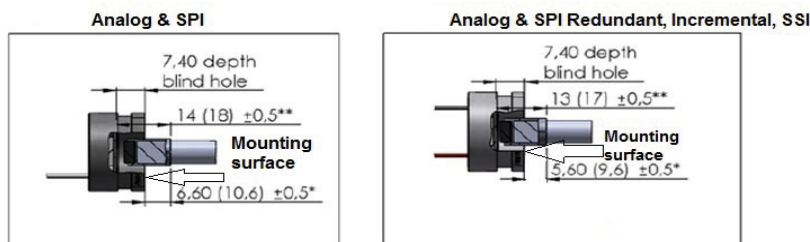


Fig E

5. This distance will ensure the correct air gap required between Hall IC & magnet to give an optimum output. Refer figure F.

Analog & SPI version	Analog & SPI Redundant Version	Incremental & SSI Version
1.5mm (±0.5mm)	1mm (±0.5mm)	0.5mm (-0.3 & +0.2mm)

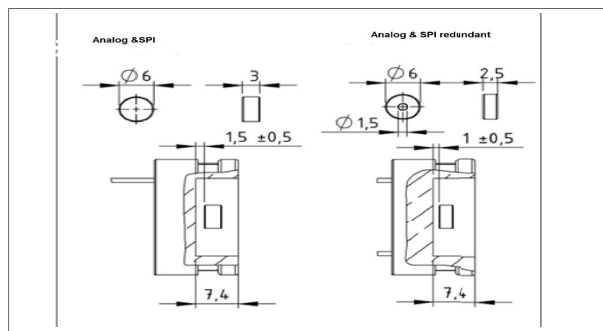


Fig F1

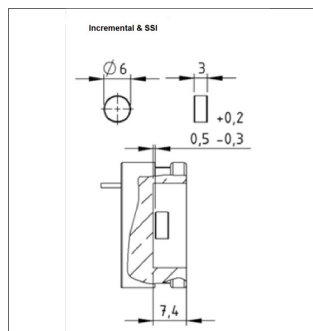


Fig F2

Influence of an excentric positon of the magnet relative to the housing to the signal of the sensor	
Excentricity	max. variance /360°
0,5 mm	0,6 °
0,75 mm	1,2 °

Fig F3

Assembly for kit version without magnet holder

1. Glue the suitable magnet on the shaft.
2. Take the sensor & bring it concentric to the magnet glued on shaft. Concentricity of magnet with inner diameter i.e blind hole should be maintained while assembling encoder.
Please refer fig J1 to J3
3. Fix two holes of the flange of kit to this position as shown in fig I to ensure below distance.
The distance between surface of blind hole & magnet surface should be as shown in below figures J1 to J3

Analog & SPI

Analog & SPI redundant

Incremental & SSI

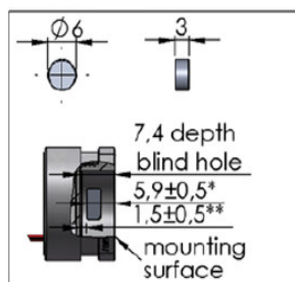


Fig J1

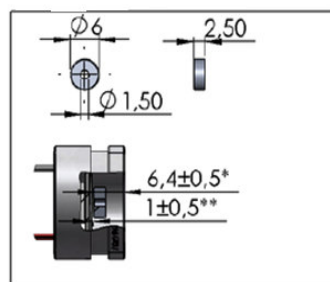


Fig J2

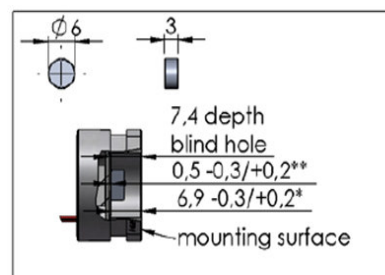


Fig J3

Analog & SPI version	Analog & SPI Redundant Version	Incremental & SSI Version
1.5mm (±0.5mm)	1mm (±0.5mm)	0.5mm (-0.3 & +0.2mm)

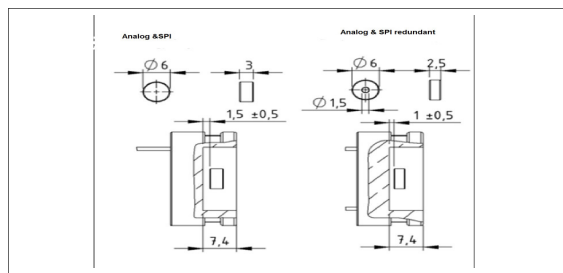


Fig K1

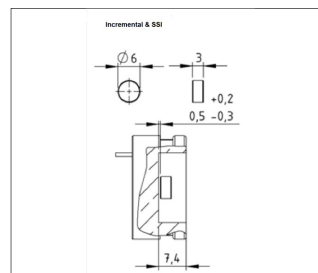


Fig K2

Influence of an excentric position of the magnet relative to the housing to the signal of the sensor	
Excentricity	max. variance /360°
0.5 mm	0.6 °
0.75 mm	1.2 °

Fig K3

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