

EN Assembly Instructions
G1MMH, G2MMH
 Absolute Encoder – DeviceNet

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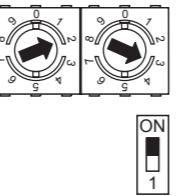
 All movable adjusting elements need tolerance in both axial and radial direction in order to equalize shifts by temperature and of mechanical nature. Tighten both fixing and clamp ring screws firmly.

Electrical installation

- Do not modify encoder in any electrical way and carry out any wiring work under power supply.
- Any electrical connection and plugging-on whilst under power supply is not permitted.
- A separate encoder supply has to be provided with consumers with high interference emission.
- Installation of the whole system has to be according to EMC standards. Installation environment as well as wiring have an impact on the encoder's EMC. Encoder and supplying lines are to be in separated locations or remote from lines with high interference emission (frequency transformers, protections, etc.).
- Encoder case and supply cable have to be completely screened.
- Ground (PE) encoder by using screened cables. The braided shield has to be connected to cable gland or plug. Grounding (PE) on both sides is recommended. Ground the case by the mechanical assembly, if latter is electrically isolated a second connection has to be provided. Ground cable screen by the subsequently connected devices.
- In case of ground loop problems at least grounding on one side is imperative.

 Any disregard may lead to malfunctions, material damage and personal injury.

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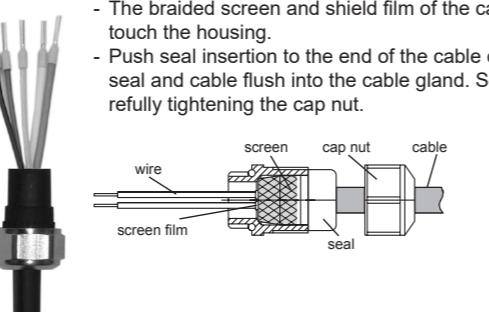
Baud rate	Dip switch position	1	2	3
125 kBit/s	X	OFF	OFF	
250 kBit/s	X	OFF	ON	
500 kBit/s	X	ON	OFF	
125 kBit/s*	X	ON	ON	

X = without function

* = This switch position is not defined, therefore internally set to default 125 kBit/s.

Assignment – cable gland (bus cover)

- Unscrew cap nut of cable gland. Push cap nut and seal insertion onto the cable coat.
- Strip the cable sheath and cores, remove the braided screen and shield film completely as far as the end of the cable sheath.
- The braided screen and shield film of the cable must not touch the housing.
- Push seal insertion to the end of the cable coat. Insert seal and cable flush into the cable gland. Secure by carefully tightening the cap nut.



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Danger
 Warnings of possible danger.

General instructions
 Information on appropriate product handling.

General remarks
Additional information

The installation instruction is supplementary to already existing documentation (e.g. catalog, data sheet, manual).



It is imperative to read the manual carefully prior to starting the device.

Appropriate use

- The encoder is a precision measuring device. It is explicitly designed for registration of angular positions and revolutions as well as evaluation and supply of measuring values as electric output signals for the subsequently connected device. The encoder must not be used for any other purpose.

Start up

- Installation and assembly of the encoder only by electrically skilled and qualified personnel.
- Consider also the operation manual of the machine manufacturer.


Safety instructions

- All electrical connections are to be revised prior to starting the system.
- Incorrect assembly and electrical connections or any other inappropriate work at encoder and system may lead to malfunction or failure of the encoder.
- Any risk of personal injury, damage of the system or company equipment due to failure or malfunction of the encoder has to be eliminated by corresponding safety measures.
- Do not operate encoder beyond the limit values stated in the data sheet.



Any disregard may lead to malfunctions, material damage and personal injury.


Disposal

Encoder components are to be disposed of according to the regulations prevailing in the respective country.

Transport and storing

- In original packing only.
- Do not drop or expose encoder to major shocks.

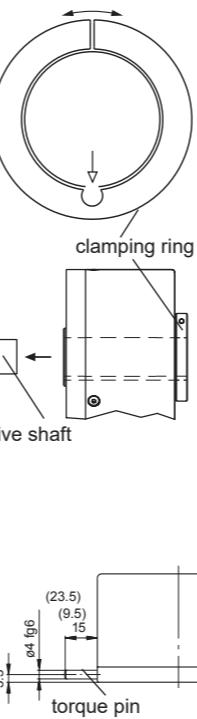
Assembly

- Open clamping ring completely before mounting the encoder.
- Avoid punches or shocks on case and shaft.
- Avoid case distortion.
- Do not open or modify encoder in any mechanical way.
- The spring arm of the spring coupling has to be free movable.

 Hollow shaft, bearing, glass disc or electronic components might be damaged and a secure operation is no longer guaranteed.

Hollow shaft mounting

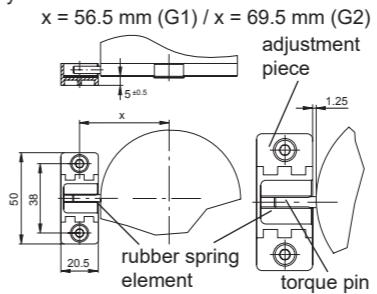
Mounting with clamping ring
Plug encoder completely onto drive shaft (ISO-fit g7). Position of the clamping ring has to be set properly to the hollow shaft slot (see drawing) and tighten clamping ring firmly.



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Mechanical assembly

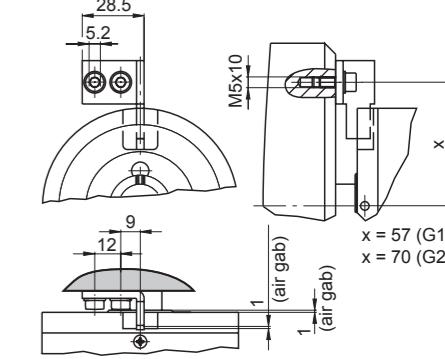
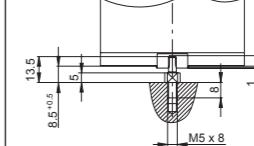
Slide encoder onto the drive shaft and insert torque pin into the adjusting element provided by customer or insert pin into the mounted adjusting part (with rubber spring element) provided by customer.



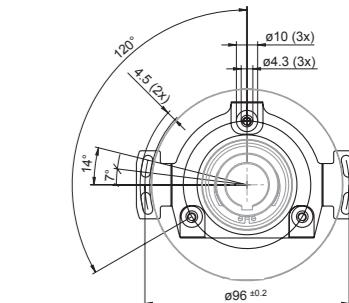
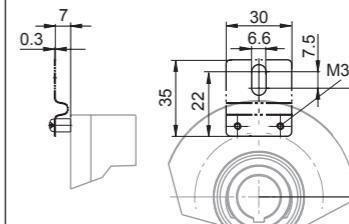
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Slide encoder

Slide encoder onto the drive shaft and insert the extension screw or adjusting angle provided by customer into the encoder's rubber spring element.


Spring coupling

Fasten spring coupling at the fixing holes provided on housing by means of screws. Slide encoder onto the drive shaft and fasten spring coupling at the surface provided with screws.


Starting torque

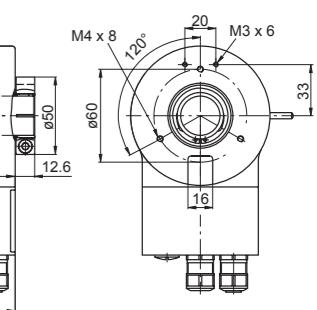
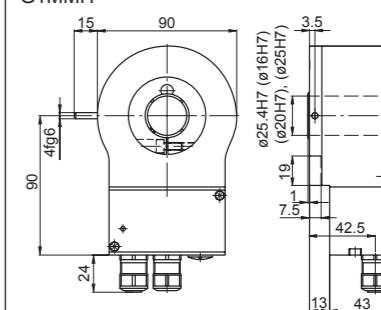
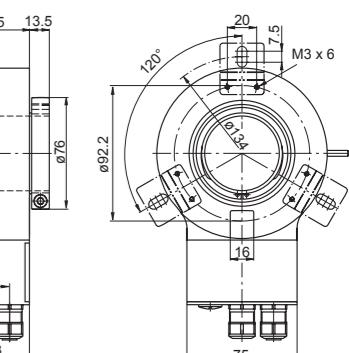
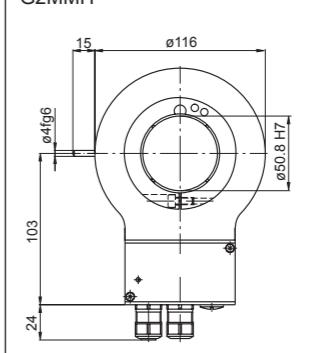
Terminal block/screw terminal max. 0.4 Nm

Screwing - bus cover M4 max. 1.9 Nm

Spring coupling mounting

M3 max. 1.2 Nm / M4 max. 1.9 Nm

Clamping ring mounting M5 max. 6 Nm

Dimensions
G1MMH

G2MMH


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