

Encoder models

IHI 603

IHI 633

IHI 693



Mounting instructions

LEINE+LINDE



1518059-01
1518059-00-A-01



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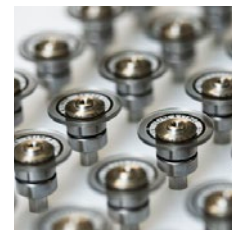
For further contact information, please visit our
website at **www.leinelinde.com**



Leine Linde is a Swedish company dedicated to development, manufacturing and sales of encoders, sensors, and system electronics, for demanding industrial applications all over the world. Some of the additional values offered by Leine Linde are our technical support and the possibility to supply products with express production service shipped within 24 hours.

On our website **www.leinelinde.com** you can find

- data sheets and other product information





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Specifications and content in this document are subject to change without prior notice due to our continuous strive to improve functionality and performance of our products.



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The following models are covered by these mounting instructions:

The encoder model IHI 693 have customized properties and may deviate slightly from these mounting instructions.

Please observe that the illustrations may differ from the actual product, with regard to model, materials and colours, type of connections, etc.

IHI 603 IHI 633

1



Risk of bodily injury

1.1)



1.2)



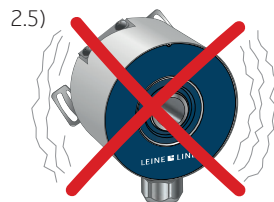
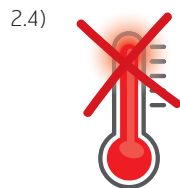
Important before mounting begins:

- 1.1 Switch off the power. Make sure the machine is at a standstill.
- 1.2 Make sure the machine is at a standstill. The product is to be mounted on a rotating part that can cause bodily injury when in motion.

2



Risk of damage to the product



The product is a precision measuring instrument. It should be handled with care, by experienced personnel. The warnings below apply in the event of effects outside the limit values stated in the product's data sheet.

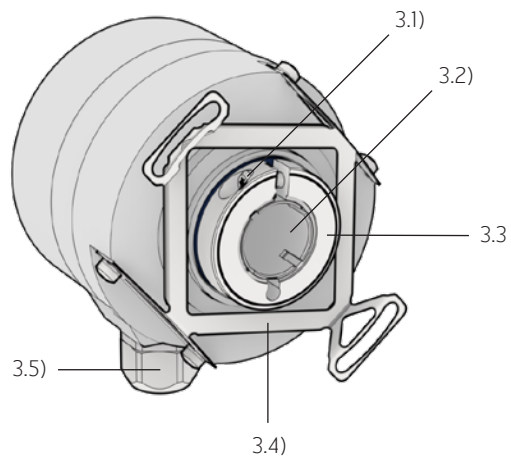
The product may be damaged

- 2.1 by ESD discharges if the electronics are touched
- 2.2 if it is exposed to high mechanical forces
- 2.3 by moisture or chemical fluids
- 2.4 if it is exposed to extreme temperatures
- 2.5 if it is exposed to powerful vibrations or shock
- 2.6 by short-circuits or an excessively high supply voltage
- 2.7 by impacts or knocks or other physical damage

3



Parts of the product

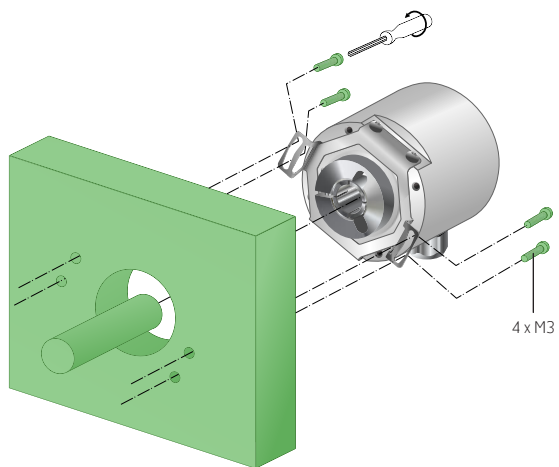


- 3.1 Fixing screw
- 3.2 Through-going hollow shaft
- 3.3 Clamping ring
- 3.4 Stator coupling
- 3.5 Cable gland

4



Mounting of hollow shaft



Part from customer



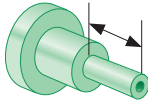
Tools for mounting

5

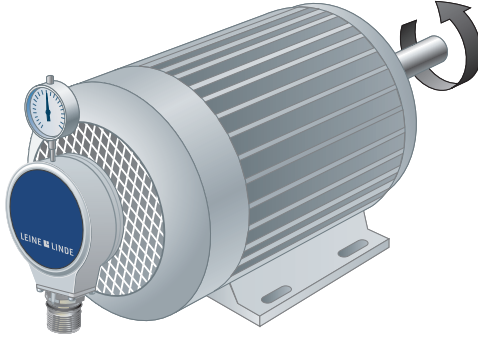


Check points for mechanical mounting

5.1)



5.2)



Hollow shaft

- 5.1 Check that the dimensions of the mating shaft match the specifications in the encoder's data sheet.
- 5.2 Check the encoder's radial runout with slow rotation of complete assembly. The runout should not exceed 0.1 mm, as this may shorten the encoder's service life or influence the system accuracy.

6

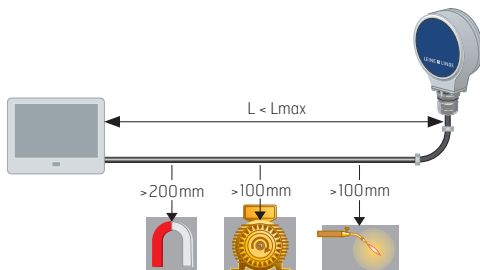


Electrical mounting

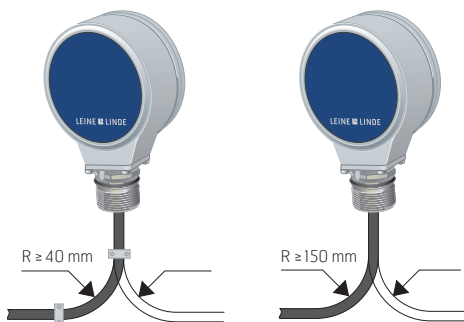
6.1)



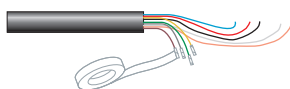
6.2)



6.3)



6.4)



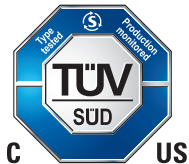
- 6.1 Use a shielded twisted-pair cable. The shielding must be connected to the chassis at both ends and be earthed at one point.
- 6.2 Keep potential sources of disturbance at the recommended distance from the cable. Make sure that the length of the cable does not exceed the value specified in the product data sheet.
- 6.3 Ensure that the cable's bending radius exceeds the permitted minimum value.
- 6.4 Treat all wires as live. Any wires not in use must be insulated.

7



Certificates and approvals

7.1)



7.2)



Leine Linde products conform to several standards and approvals. Certificates and documentation may be provided by your local Leine Linde representative upon request.

7.1 UL/CSA standards, type approval

Most Leine Linde products have been type tested in accordance with IEC 61010. The product box label states if the product conforms to the standard. When the product is operated in accordance with IEC 61010-1, the power must be supplied from an isolated secondary circuit with current or energy or power limitation as per IEC 61010-1, IEC 60950-1, or by a class 2 secondary circuit as specified in UL 1310.

7.2 CE marking and Declaration of conformity

Most Leine Linde products conform to the protection requirements of Council Directive 2014/30/EU related to EMC when applicable. The product box label states if the product conforms to the standard.



Products from Leine Linde are usually components in larger systems. These applications require the system as a whole to be tested, and do not depend on the component specifications only.

Instructions in these mounting instructions apply to products from Leine Linde, not for the system as a whole. If products are used in a way for which they are not intended, this is at the user's own risk.

Specifications in this document can be changed without prior notice.

This product is to be disposed of separately.