

Encoder model **RLI 4300**



Mounting instructions



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LeineLinde is a Swedish company dedicated to production of encoders for heavy duty applications. Some of the values offered by LeineLinde are local technical support and possibility of 24 hours express delivery.

On our website www.leinelinde.com you can find

- data sheets and other product information
- detailed manuals and software for use with field-bus encoders.





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



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The following models are fully covered by these mounting instructions:

RLI 4300

1



Risk of bodily injury

1.1)



1.2)



Important before mounting begins:

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

2



Risk of damage to the product

2.1)



2.2)



2.3)



2.4)



2.5)



2.6)



2.7)





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.

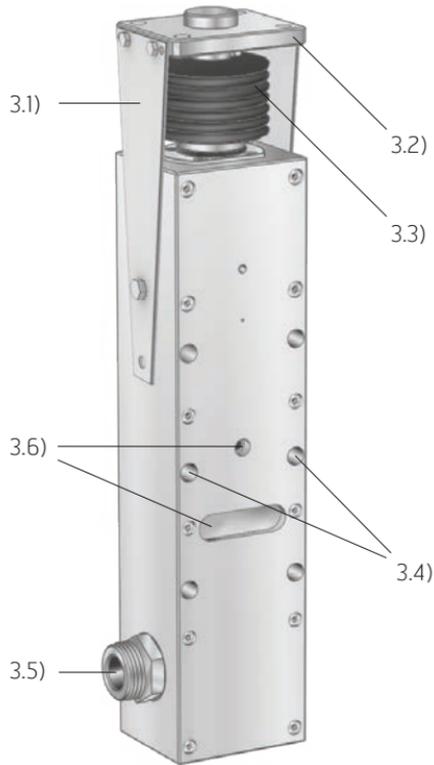
The product may be damaged

- 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 (Make sure to use protective hose to avoid moisture or dust entering the air flow hole.)
- 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





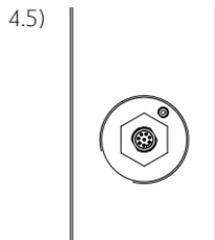
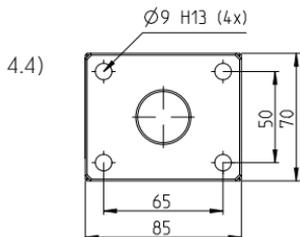
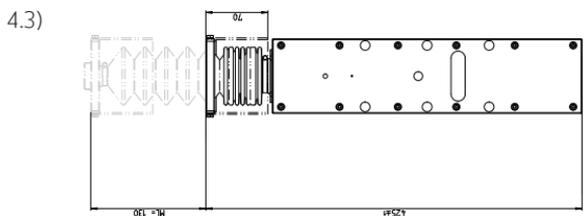
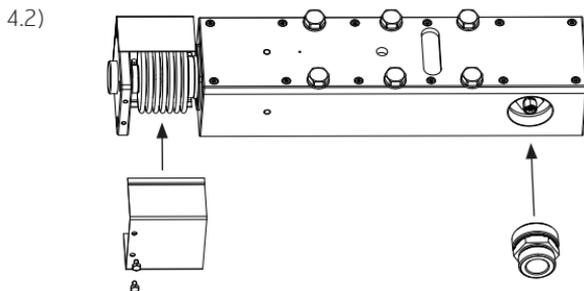
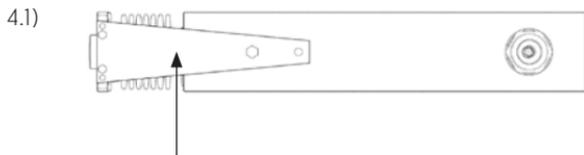
The images illustrates an RLI 4300 with 130 mm measuring length.

- 3.1 Transport protection
- 3.2 Flange
- 3.3 Viton bellows
- 3.4 Mounting holes
- 3.5 Hose connector
- 3.6 Guidance holes
- 3.7 Air flow hole
- 3.8 12 pin M12 connector

4



Mechanical mounting



**Flange mounting procedure:**

Check that the dimensions of the mating connection matches the specification of the flange.

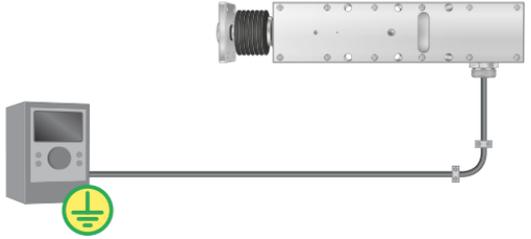
- 4.1 Remove the transport protection
- 4.2 Mount the cover plates, add the hose connector to connect to air flow channel.
- 4.3 Mount the RLI 4300 on the machine with prepared mounting brackets. Make sure that the RLI scale is mounted in a way so that the reference mark, at midpoint of the measuring length, is reached.
- 4.4 Align the encoder according to the specifications given in drawing.
- 4.5 Mount a suitable hose connector and hose to protect the cable and air flow hole.

5

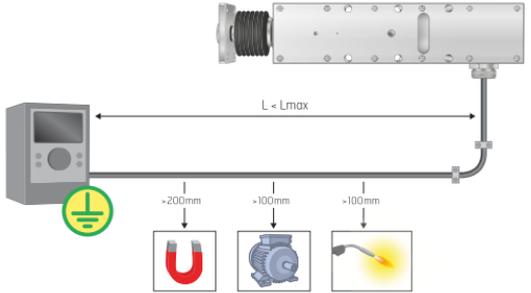


Electrical mounting

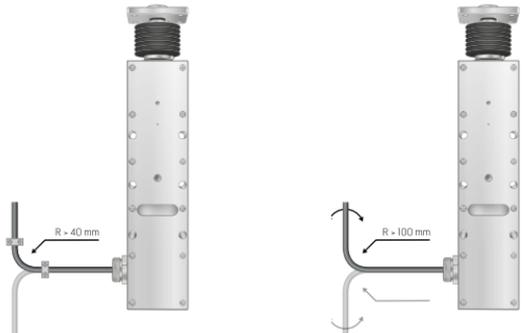
5.1)



5.2)



5.3)





- 5.1 Use a suitable shielded cable. The shielding must be connected to the chassis at both ends and be earthed at one point.
- 5.2 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.
- 5.3 Ensure that the cable's bending radius exceeds the permitted minimum value.

6



Accessories

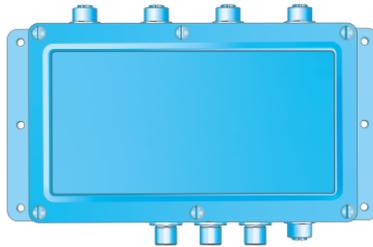
6.1)



6.2)



6.3)





- 6.1 Fitting for hydraulic hose pipe 90°
- 6.2 Fitting for hydraulic hose pipe straight
- 6.3 ERG Gateway (See separate ERG Gateway for RLI sensor manual)

7



Certificates and approvals

7.1)



7.2)



Leine Linde products conform to several standards and approvals. Certificates and documentation is 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.

