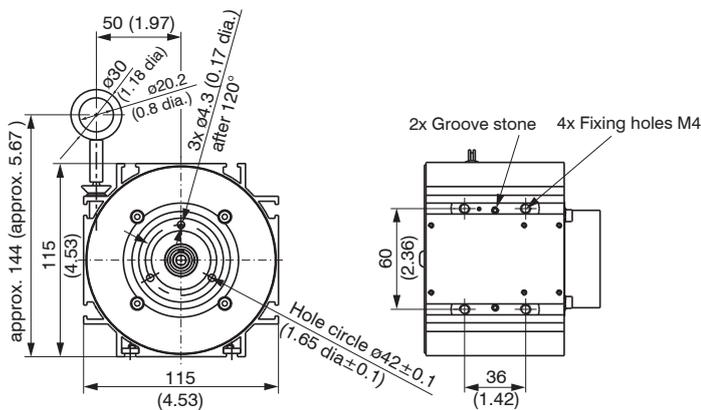


Assembly Instruction for L1-BXXXX-...



Sensor Assembly

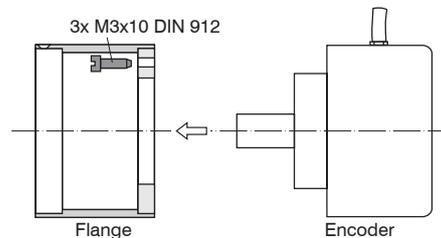
- Series L1-BXXXX: 4x M6 screws DIN 931 and 2 groove stones
The sensor does not have to be oriented in a special way.
Choose the installation position so that damage and soiling of the measuring wire is avoided.



Dimensional drawing, L1-BXXXX, dimensions in mm (inches), not to scale

Installing the Encoder

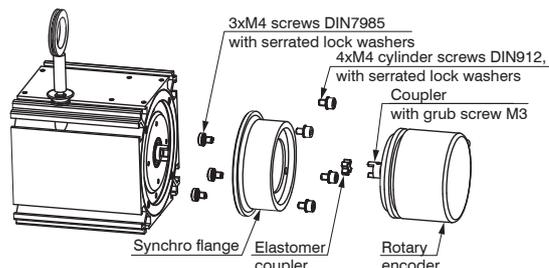
Make sure that the measuring wire is always tensioned by the spring motor in order to prevent it from jumping off the pulley.



Mounting of adapter flange and encoder

- Mount the encoder/adapter flange assembly on the draw-wire mechanism.
- Fasten the coupling and the encoder shaft with the supplied hexagon socket screw. Press the supplied cap into the opening in the adapter flange housing.

Make sure that the encoder shaft is not rotated during installation!
Follow the installation instructions issued by the manufacturer of the encoder.



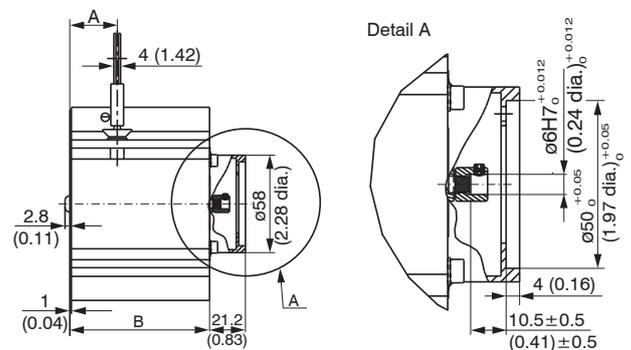
Mounting of adapter flange and encoder

Precautionary Measures

- Do not open the sensor housing.
- Do not pull or loop the measuring wire around unprotected parts of the body.
- > Danger of injury
- Do not damage the measuring wire.
- Do not oil or grease the measuring wire.
- Do not bend the measuring wire.
- Do not pull the measuring wire at an angle.
- Do not allow to loop the measuring wire around objects.
- Do not let the measuring wire rewind without control (snap back).
- Fix the measuring wire to the target when wound up only.

Proper Environment

- Protection class of sensor: IP 65
- Operating temperature: -20 up to +80 °C
- Storage temperature: -40 up to +80 °C
- Humidity: 5 - 95 % (no condensation)
- Ambient pressure: atmospheric pressure
- Vibration: according to IEC 68-2-6
- Mechanical shock: according to IEC 68-2-27



Measuring range	A	B
5000	28 (1.10)	82.5 (3.25)
10000	44.5 (1.75)	148.5 (5.85)
15000	61 (2.40)	180.5 (7.11)

Wire Guide and Fastening

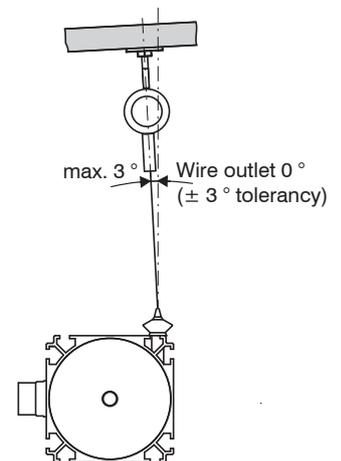
- Fix the measuring wire to the target using a M4 threaded bolt or eyelet.
- Fed the measuring wire perpendicularly from the sensor housing.

Misalignment is only permissible up to 3 degrees.

Dragging of the measuring wire on the inlet hole or other objects leads to damage and/or snapping of the measuring wire.

If the measuring wire cannot be fed vertically out of the housing, it is essential to use a guide pulley.

- Keep the measuring wire in an area, where it cannot be snagged or otherwise violated.



Wire fastening and misalignment

For further information, please refer to the online documentation.

You will find the latest version at: www.heinlanz.com

> "Draw-wire sensor mechanics for mounting encoders".

Operation and Maintenance

- Do not grease or oil the measuring wire, the wire drum, the spring motor. Observe the notes on wire guiding during operation.

Imperfect wire guiding can lead to increased wear and premature defects. We advise against attempting to do repairs because of the danger of injury and improper handling. The warranty and all liability claims are null and void if the device is manipulated by unauthorised persons.

Repairs are to be made exclusively by HEIN LANZ.

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