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General Information

This document contains information that you need in order to mount and install your product.

This document does not substitute the instruction manual.

For full information on the product, refer to the instruction manual and further documentation on the Internet at www.pepperl-fuchs.com.

For specific device information such as the year of construction, scan the QR code on the device. As an alternative, enter the serial number in the serial number search at www.pepperl-fuchs.com.

Note

Further information is available on the product detail page of the device on the Internet at www.pepperl-fuchs.com.

Enter the order designation in the search field
→ Select the appropriate device
→ Open the product detail page
→ Open the **Product Documentation** tab.

Target Group, Personnel

Responsibility for planning, assembly, commissioning, operation, maintenance, and dismounting lies with the plant operator.

The personnel must be appropriately trained and qualified in order to carry out mounting, installation, commissioning, operation, maintenance, and dismounting of the device. The trained and qualified personnel must have read and understood the instruction manual.

Prior to using the product make yourself familiar with it. Read the instruction manual carefully.

Intended Use

The device is only approved for appropriate and intended use. Ignoring these instructions will void any warranty and absolve the manufacturer from any liability.

Only use the device in the industrial location.

The device is a conductive limit switch and is used for limit value detection in conductive liquids.

Use the device only within the specified ambient and operating conditions.

Only use the device in media to which the process-contacting materials of the device are sufficiently resistant.

Improper Use

Protection of the personnel and the plant is not ensured if the device is not used according to its intended use.

Mounting

Required tools: Open-ended wrench or socket wrench 55AF

Note

The rods can be shortened depending on the installation conditions, see additional documentation.

Mounting Requirements

Rod Probes

- Devices with two- to five-rod probes can be installed in vessels or tanks, see figure.
- Only two-rod probes can be installed in pipes, see figure.
- Use a socket wrench for measuring points that are difficult to access.
- * Only for two-rod probes, see figure

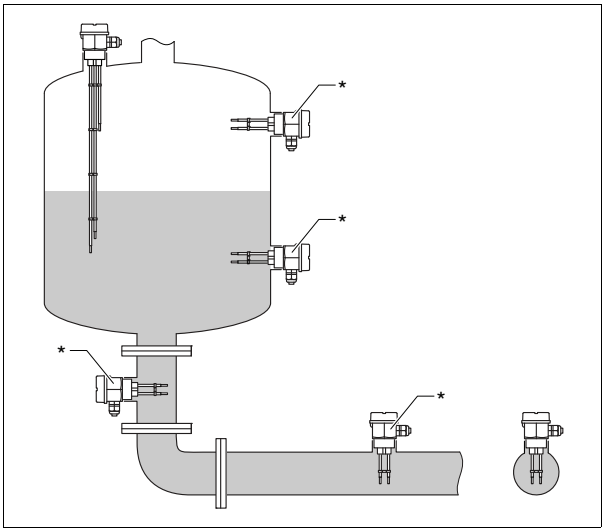


Figure 1

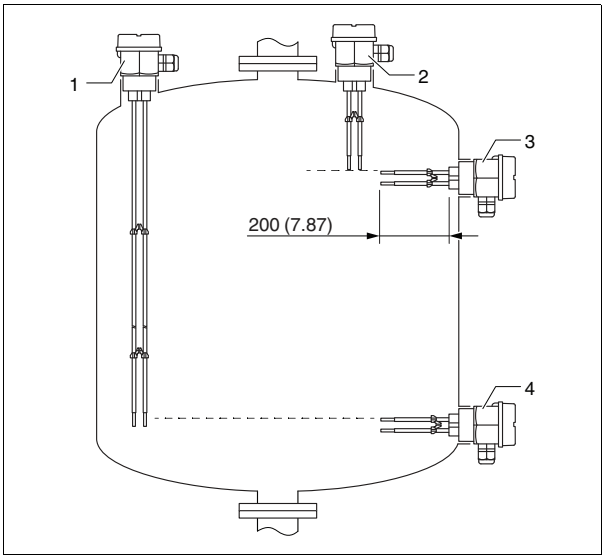


Figure 2 Positions of the rod probes in the tank

1 Vertical installation, MIN detection; probe length adapted to the point level; the rods must not touch the container!

2 Vertical installation, MAX detection; probe length adapted to the point level.

3 Lateral installation, MAX detection, maximum probe length 200 mm (7.87 inch) (applies only to two-rod probes)

4 Lateral installation, MIN detection, maximum probe length 200 mm (7.87 inch) (applies only to two-rod probes)

Note

Vertical installation

If the sensor is not completely covered by the medium or if there are air bubbles on the sensor, this may interfere with the measurement.

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Mounting the Device

- Tighten by the hexagonal nut only.
- Torque for G1-1/2 thread: 80 to 100 Nm (59 to 73 lbf ft)
- Torque for NPT1-1/2 thread: 40 to 80 Nm (30 to 59 lbf ft)

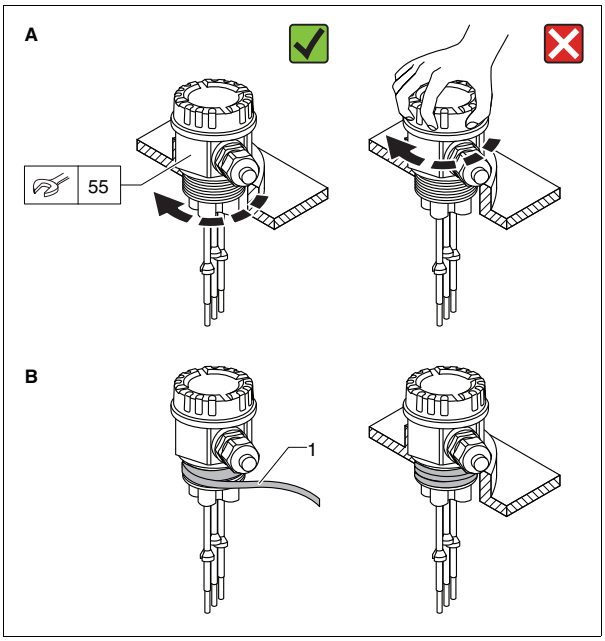


Figure 3 Tightening the device

1 PTFE tape
A G1-1/2 version
B NPT1-1/2 version

Electrical Connection

An easily accessible power switch must be provided in the proximity of the device in the building installation. The power switch must be marked as a disconnector for the device.

Observe directives, standards, and national laws applicable to the intended use and the operating location.

The device can be connected to an evaluation unit either directly or via an electronic insert. Connection via electronic insert, see additional documentation.

Direct Connection

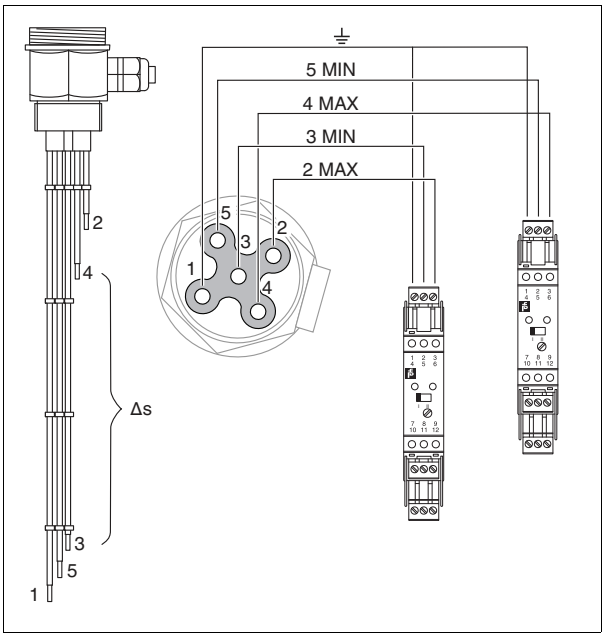


Figure 4 Sample connection of a five-rod probe to two evaluation units

Δs Two-point control/point level detection

Connection via an Electronic Insert

Refer to additional documentation for connection.

Ensuring the Degree of Protection

Testing according to IEC 60529 and NEMA 250: IP66, NEMA 4X

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