


Instruction Manual

1. Marking

Float switch
LFL1-*K-N-****
ATEX certificate: TÜV 99 ATEX 1407
ATEX marking:  II 2G Ex ia IIB T5 Gb

The *-marked letters of the type code are placeholders for versions of the device.

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2. Target Group, Personnel

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

The personnel must be appropriately trained and qualified in order to carry out mounting, installation, commissioning, operation, maintenance, and dismantling 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.

3. Reference to Further Documentation

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

The corresponding datasheets, manuals, declarations of conformity, EU-type examination certificates, certificates, and control drawings if applicable supplement this document. You can find this information under www.pepperl-fuchs.com.

Refer to the relevant EU-type examination certificate to see the relationship between the connected circuit type, the maximum permitted ambient temperature, the temperature class, and the effective inner reactances.

4. 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.

The device is a float switch and switches in the event of deviation from the horizontal position.

The EU-type examination certificate in accordance with ATEX Directive applies only to the use of apparatus under atmospheric conditions.

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

The device is an intrinsically safe apparatus according to IEC/EN 60079-11.

The device can be used in hazardous areas containing gas, vapor, and mist.

5. Improper Use

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

If circuits with type of protection Ex i are operated with non-intrinsically safe circuits, they must no longer be used as circuits with type of protection Ex i.

6. Mounting and Installation

Do not mount a damaged or polluted device.

Do not mount the device in the dust hazardous area.

Only use accessories specified by the manufacturer.

Requirements for Cables and Connection Lines

Install cables and cable glands in a way that they are not exposed to mechanical hazards.

Observe the minimum bending radius of the cables and connection lines.

Requirements for Hazardous Area

Observe the installation instructions according to IEC/EN 60079-14.

The device may be installed in gas group IIB.

The device may be installed in Zone 1.

For applications in Zone 1, the type of protection must be Ex i.

Observe the respective peak values of the field device and the associated apparatus with regard to explosion protection when connecting intrinsically safe field devices with intrinsically safe circuits of associated apparatus (verification of intrinsic safety). Also observe IEC/EN 60079-14 and IEC/EN 60079-25.

Keep the separation distances between all non-intrinsically safe circuits and intrinsically safe circuits according to IEC/EN 60079-14.

7. Operation, Maintenance, Repair

Do not use a damaged or polluted device.

Do not repair, modify, or manipulate the device.

If there is a defect, always replace the device with an original device.

Return

If there is a defect, always send back the device to Pepperl+Fuchs.

Take the following precautions before you return the device to Pepperl+Fuchs.

Remove all adhering residues from the device. These residues can be hazardous to health.

Fill in the form "Declaration of Contamination". You can find this form on the product detail page at www.pepperl-fuchs.com.

Enclose the filled in "Declaration of Contamination" form with the device.

Pepperl+Fuchs can examine and repair a returned device, only if a completed form is included in the return.

If needed, include special handling instructions with the device.

Specify the following information:

- Chemical and physical characteristics of the product
- Description of the application
- Description of the error that occurred (specify error code if possible)
- Operating time of the device

8. Delivery, Transport, Disposal

Check the packaging and contents for damage.

Check if you have received every item and if the items received are the ones you ordered.

Store the device in a clean and dry environment. The permitted ambient conditions must be considered, see datasheet.

Disposing of device, packaging, and possibly contained batteries must be in compliance with the applicable laws and guidelines of the respective country.