# Mounting and Connection

## General Information

This document contains information required to connect and configure 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/device-information.

**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.

### Device Versions

| (1) | (2) | – | (3) | – | (4) |
|---|---|---|---|---|---|
| F | * | – | LB | – | I |

| (1) | Mounting version |
|---|---|
| F | Screw-in module for field mounting |

| (2) | Connection |
|---|---|
| N | NPT1/2 cable gland |
| P | M20 x 1.5 cable gland |
| S | PG13.5 cable gland |

| (3) | Function |
|---|---|
| LB | Surge protection barrier |

| (4) | Type of protection |
|---|---|
| I | Ex i |

## 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.

This barrier provides 85 V line-to-line and 500 V line-to-ground clamping voltage for the protected instruments. It also protects instruments that have less than 500 V isolation-to-ground.

The device is screwed directly into the field device or terminal box using a free cable gland.

- Screw in type for field devices
- Protection of field devices
- 1/2NPT, M20 or PG13.5 cable gland
- Intrinsic safety Ex i design

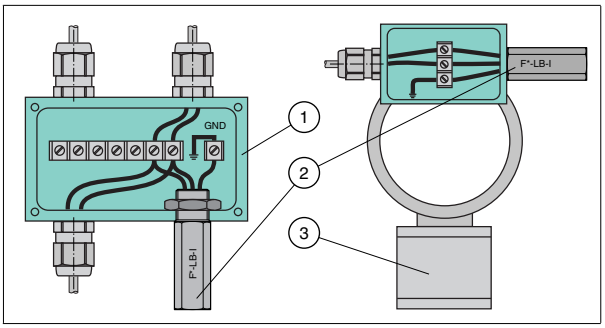



Figure 1 Assembly

1 Terminal box
2 Surge protection barrier F*-LB-I
3 Field device

## Improper Use

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

## Mounting

Available mounting versions:

| Device | Thread |
|---|---|
| FN-LB-I | Device with cable gland 1/2NPT |
| FP-LB-I | Device with cable gland PG13,5 |
| FS-LB-I | Device with cable gland M20 x 1,5 |

Table 1

### Mounting the Device

(1) Shorten the three cables on the device (2) to the appropriate length.

(2) Screw the device (2) into a free cable gland on the field device (3) or terminal box (1).

**Note**

See corresponding datasheets for further information.

## Connection

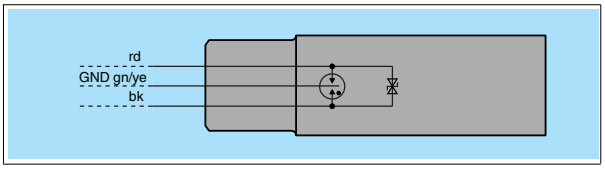



Figure 2 Wiring diagram

### Connecting the Device

(1) Connect the three wires in parallel to the signal lines and earth connection of the field device (3). This will ensure a line-to-line and line-to-earth protection.

(2) Install the grounding system in accordance with applicable regulations.

**Note**

See corresponding datasheets for further information.

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