

**Features**

- Cast aluminum housing
- Loop powered
- Direct mounting on HART or 4 mA ... 20 mA field device
- Encapsulated antenna
- Up to 8 field devices in multidrop

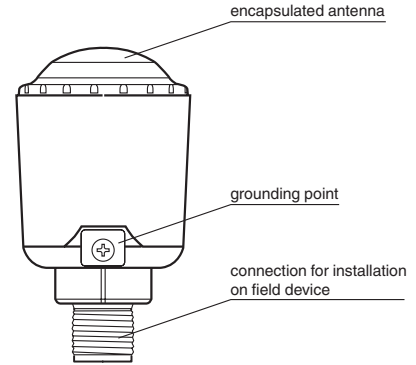
**Function**

The device upgrades a conventional HART or 4 ... 20 mA field device with a WirelessHART interface.

The supply is ensured via loop power. The adapter is suitable for use in a non-hazardous area and it can be used directly on the field device or it can be integrated in the 4 ... 20 mA loop. Up to 8 HART field devices can be connected to each other in multidrop mode.

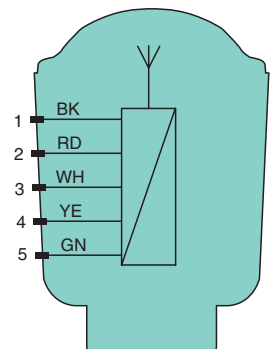
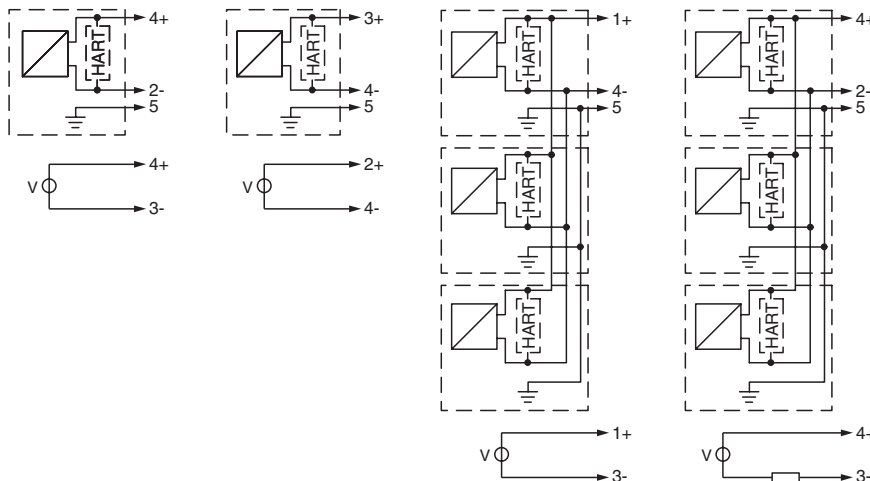
The device can be programmed with a configuration tool easily (DTM or DD).

**Assembly**



**WirelessHART**

**Connection**



Release date 2017-12-13 14:11 Date of issue 2017-12-13 916970\_eng.xml

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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|                                                |       |                                                                                                                                                                                                                                                 |
|------------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Supply</b>                                  |       |                                                                                                                                                                                                                                                 |
| Rated voltage                                  | $U_r$ | 7 ... 32 V DC                                                                                                                                                                                                                                   |
| Rated current                                  | $I_r$ | < 1 mA , max. 25 mA                                                                                                                                                                                                                             |
| <b>Electrical specifications</b>               |       |                                                                                                                                                                                                                                                 |
| Output rated operating current                 |       | 3.2 ... 25 mA                                                                                                                                                                                                                                   |
| Supply                                         |       | loop power for field devices<br>voltage: 1 ... 2.5 V DC, adjustable in steps of 0.5 V                                                                                                                                                           |
| <b>Input</b>                                   |       |                                                                                                                                                                                                                                                 |
| Connection                                     |       | - 5 wires, 600 mm long, exiting from male thread NPT1/2<br>- 1 external grounding point                                                                                                                                                         |
| <b>HART communication</b>                      |       |                                                                                                                                                                                                                                                 |
| Protocol                                       |       | HART 7.1, backward compatible                                                                                                                                                                                                                   |
| Number of devices                              |       | up to 8 HART field devices (depending on installation)                                                                                                                                                                                          |
| <b>Output</b>                                  |       |                                                                                                                                                                                                                                                 |
| Interface                                      |       | internal antenna                                                                                                                                                                                                                                |
| Communication                                  |       | WirelessHART specifications<br>- physical layer: IEEE 802.15.4.2006<br>- frequency band: 2.4 GHz (ISM band, licence free)<br>- maximum transmit power: +10 dBm<br>- outdoor transmission range: 235 m<br>- communication standard: WirelessHART |
| <b>Directive conformity</b>                    |       |                                                                                                                                                                                                                                                 |
| Radio and telecommunication terminal equipment |       | The usage of 2.4 GHz equipment is bound to local restrictions. Ensure that restrictions allow usage of this product before commissioning.                                                                                                       |
| Directive 2014/53/EU                           |       | EN 300 328 V2.1.1:2016<br>EN 301 489-1 V2.2.0:2017<br>EN 301 489-17 V3.2.0:2017                                                                                                                                                                 |
| FCC CFR47 Part 15 B and C                      |       | ANSI C63.4-2003 , FCC ID: X89-WA1101                                                                                                                                                                                                            |
| <b>Conformity</b>                              |       |                                                                                                                                                                                                                                                 |
| Degree of protection                           |       | IEC 60529:2013                                                                                                                                                                                                                                  |
| <b>Ambient conditions</b>                      |       |                                                                                                                                                                                                                                                 |
| Ambient temperature                            |       | -40 ... 85 °C (-40 ... 185 °F)                                                                                                                                                                                                                  |
| Storage temperature                            |       | -40 ... 85 °C (-40 ... 185 °F)                                                                                                                                                                                                                  |
| Relative humidity                              |       | max. 100 %                                                                                                                                                                                                                                      |
| <b>Mechanical specifications</b>               |       |                                                                                                                                                                                                                                                 |
| Degree of protection                           |       | IP67                                                                                                                                                                                                                                            |
| Material                                       |       | Aluminum alloy with polyurethane enamel paint                                                                                                                                                                                                   |
| Mass                                           |       | 460 g                                                                                                                                                                                                                                           |
| Dimensions                                     |       | 60.8 x 60.8 x 100 mm (l x w x h)                                                                                                                                                                                                                |
| <b>International approvals</b>                 |       |                                                                                                                                                                                                                                                 |
| FM approval                                    |       | FM 17 NUS 0010                                                                                                                                                                                                                                  |
| Control drawing                                |       | 116-0425 (cFMus)                                                                                                                                                                                                                                |
| CSA approval                                   |       | FM 17 NCA 0004                                                                                                                                                                                                                                  |
| Control drawing                                |       | 116-0425 (cFMus)                                                                                                                                                                                                                                |
| <b>General information</b>                     |       |                                                                                                                                                                                                                                                 |
| Supplementary information                      |       | Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a> .                                                 |

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