

# Safety Instructions

## RIA14, RIA16

Field Indicator

Ex ib IIC T4...T6 Gb

Ex db IIC T4...T6 Gb





# RIA14, RIA16

Field Indicator

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**Associated documentation**

To commission the device, please observe the Operating Instructions pertaining to the device:  
[www.endress.com/<product code>](http://www.endress.com/<product code>), e.g. RIA14

**Supplementary documentation**

Explosion protection brochure: CP00021Z  
The explosion protection brochure is available on the Internet:  
[www.endress.com/Downloads](http://www.endress.com/Downloads)

**Certificates and declarations****NEPSI certificate**

Certificate number: GYJ20.1355X

Affixing the certificate number certifies conformity with the following standards (depending on the device version)

- GB 3836.1-2010
- GB 3836.2-2010
- GB 3836.4-2010
- GB 3836.20-2010

**CCC certificate**

Certificate number: 2020322309002711, 2020322309002714

Affixing the certificate number certifies conformity with the following standards (depending on the device version)

- GB/T 3836.1-2021
- GB/T 3836.2-2021
- GB/T 3836.4-2021



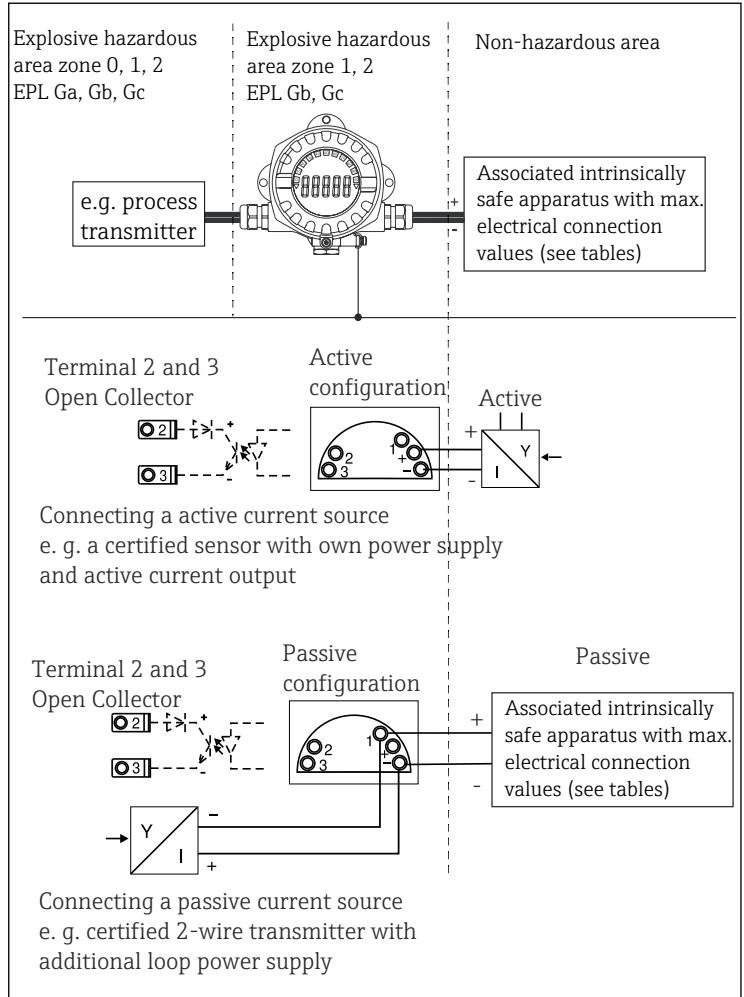
Please refer to NEPSI/CCC certificates for conditions of safe use.

**Certificate holder**

Endress+Hauser Wetzler GmbH + Co. KG  
Obere Wank 1  
87484 Nesselwang, Germany

**Safety instructions**

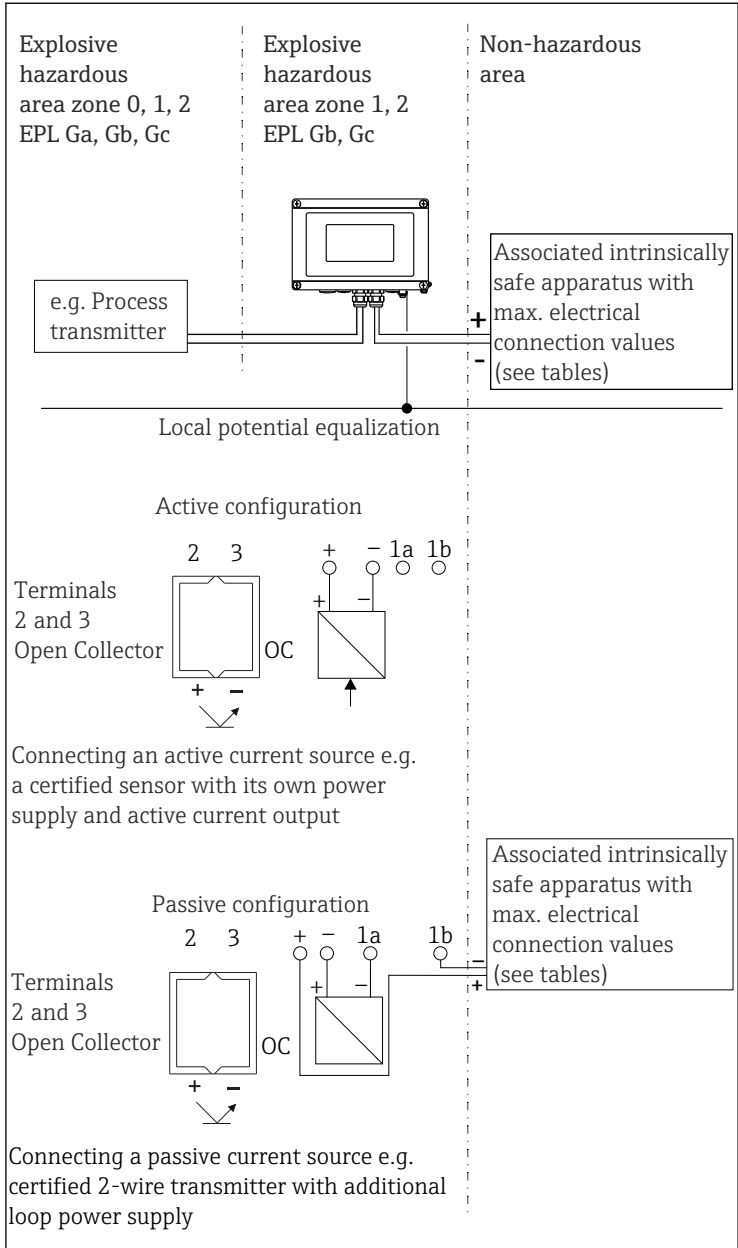
**RIA14**



A0048122

1 Installation of the field indicator

**RIA16**



A0050340

2 Installation of the field indicator

## Safety instructions: Installation

- Comply with the installation and safety instructions in the Operating Instructions.
- Install the device according to the manufacturer's instructions and any other valid standards and regulations (e.g. EN/IEC 60079-14).
- The indicator housing must be connected to the potential matching line.
- The type of protection changes as follows when the devices are connected to certified intrinsically safe circuits of Category ib: Ex ib IIC.
- When connecting an intrinsically safe ib circuit, do not operate the process transmitter at Zone 0.
- The indicator must be installed so, that even in the event of rare incidents, an ignition source due to impact or friction between the enclosure and iron/steel is excluded.
- The circuits of indicator are isolated from its enclosure in conformance with EN/IEC 60079-11 chapter 6.3.13.

## Safety instructions: Specific conditions of use

When the enclosure is provided with an non-conductive coating, electrostatic charges on the equipment enclosure shall be avoided. For more details see safety instructions.

## Temperature tables

| Type           | Temperature class | Ambient temperature                         |
|----------------|-------------------|---|
| RIA14<br>RIA16 | T6                | $-40\text{ °C} \leq T_a \leq +50\text{ °C}$ |
|                | T5                | $-40\text{ °C} \leq T_a \leq +60\text{ °C}$ |
|                | T4                | $-40\text{ °C} \leq T_a \leq +85\text{ °C}$ |

## Electrical connection data

| Type           | Electrical data                              |                         |
|----------------|--|-------------------------|
| RIA14<br>RIA16 | Power supply<br>(Terminals + and -, + and 1) | Ui = 30 V <sub>DC</sub> |
|                |  | Ii = 100 mA             |
|                |  | Pi = 750 mW             |
|                |  | Li = 0 mH               |
|                |  | Ci = 15.2 nF            |
|                | Open Collector<br>(Terminals 2 and 3)        | Ui = 30 V <sub>DC</sub> |
|                |  | Ii = 100 mA             |
|                |  | Pi = 375 mW             |
|                |  | Li = 0 mH               |
|                |  | Ci = 0 nF               |



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[www.addresses.endress.com](http://www.addresses.endress.com)

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