

Safety Instructions

RIA14

IND-Ex: Ex db IIC T6...T4 Gb



RIA14

Table of contents

About this document 3

Associated documentation 3

Supplementary documentation 3

Certificates and declarations 3

Manufacturer address 3

Safety instructions 4

Safety instructions: Installation 5

Safety instructions: Specific conditions of use 5

Temperature tables 5

Electrical connection data 6

About this document

The document number of these Safety Instructions (XA) must match the information on the nameplate.

Associated documentation

All documentation is available on the Internet:

www.endress.com/Deviceviewer

(enter the serial number from the nameplate).

To commission the device, please observe the Operating Instructions pertaining to the device:

www.endress.com/<product code>, e.g. RIA14

Supplementary documentation

Explosion protection brochure: CP00021Z

The Explosion-protection brochure is available:

- In the download area of the Endress+Hauser website:

www.endress.com -> Downloads -> Brochures and Catalogs ->

Text Search: CP00021Z

- On the CD for devices with CD-based documentation

Certificates and declarations

PESO Approval No.:

- P645979/1
- KLPL/Ex/14-073X Issue no. 01

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

- IS/IEC 60079-0: 2017
- IS/IEC 60079-1: 2014

Manufacturer address

Endress+Hauser Wetzer (India)
Private Limited
M-192/2, MIDC Waluj
Chhatrapati Sambhajnagar 431136
India

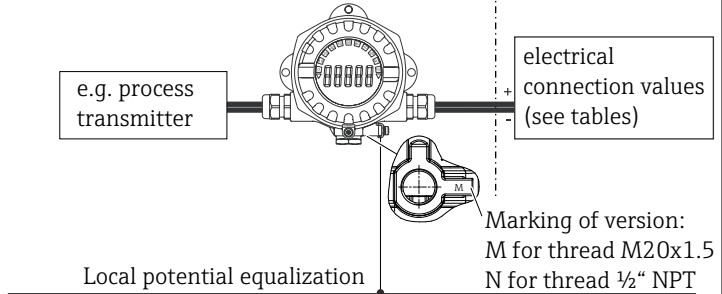
Safety instructions

Explosion hazardous area
Zone 1, 2
EPL Gb, Gc

⚠ WARNING

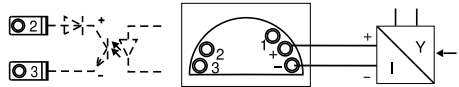
DO NOT OPEN WHEN AN EXPLOSIVE
ATMOSPHERE MAY BE PRESENT

Non-hazardous
area



Terminal 2 and 3
Open Collector

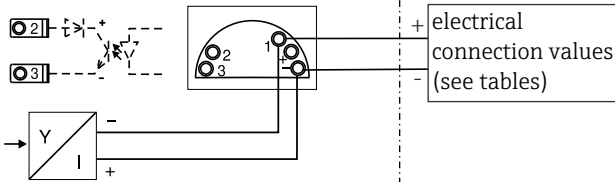
Active Configuration



Connecting an active current source
e.g. a certified sensor with its own power supply

Terminal 2 and 3
Open Collector

Passive Configuration



Connecting a passive current source
e.g. a certified 2-wire transmitter with
additional loop power supply

A0048126

1 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 national regulations (e.g. IS 16724).
- The housing of the device must be connected to the potential matching line.
- Only the approved wire entries as specified in paragraph 10.3 of IS 16724, paragraph 16 of IS/IEC 60079-0, paragraph 13 of IS/IEC 60079-1 must be used.
- For connection through a conduit entry approved for this purpose the associated sealing facility shall be mounted directly to the housing.
- Seal the cable entries with certified cable glands and or blanking elements which have at least type of protection Ex db.
- For operating the display housing at an ambient temperature under -20 °C, appropriate cables and cable entries permitted for this application must be used.
- For ambient temperatures higher than +70 °C, use suitable heat-resisting cables or wires, cable entries and sealing facilities for Ta +5 K above surrounding.
- During operation, the cover must be screwed all the way in and the cover's safety catch must be fastened.

 WARNING

Potentially explosive atmospheres

- Do not open the electrical connection of the supply circuit when energized if there is a potentially explosive atmosphere.

**Safety instructions:
Specific conditions of use**

- Flameproof joints are not intended to be repaired.
- 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	T6	-40 °C ≤ Ta ≤ +55 °C
	T5	-40 °C ≤ Ta ≤ +70 °C
	T4	-40 °C ≤ Ta ≤ +80 °C

Electrical
connection data

Type	Electrical data	
RIA14	Supply (Terminals + and - or + and 1)	$U \leq 35\text{ V}_{\text{DC}}$ $I \leq 200\text{ mA}$ $P \leq 3\text{ W}$
	Open Collector (terminals 2 and 3)	$U \leq 35\text{ V}_{\text{DC}}$ $I \leq 100\text{ mA}$ $P \leq 875\text{ mW}$



71783532

www.addresses.endress.com
