Safety Instructions RIA16

ATEX, IECEx: Ex ib [ia Ga] IIC T6 Gb

Safety instructions for electrical apparatus in explosion-hazardous areas







RIA16 XA00088R

RIA16

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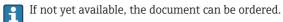
About this document



This document has been translated into several languages. Legally determined is solely the English source text.

The document translated into EU languages is available:

- In the download area of the Endress+Hauser website: www.endress.com -> Downloads -> Manuals and Datasheets -> Type: Ex Safety Instruction (XA) -> Text Search: ...
- In the Device Viewer: www.endress.com -> Product tools -> Access device specific information -> Check device features



Associated documentation

This document is an integral part of the following Operating Instructions:

Operating instructions: BA00280RBrief operating instructions: KA00279R

Technical information: TIO0144R

Supplementary documentation

Explosion-protection brochure: CP00021Z/11

The Explosion-protection brochure is available:

In the download area of the Endress+Hauser website:
www.endress.com -> Downloads -> Brochures and Catalogs -> Text Search: CP000217.

• On the CD for devices with CD-based documentation

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Manufacturer's certificates

IECEx certificate

Certificate number: KEM 10.0012X

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

IEC 60079-0:2017IEC 60079-11:2011

ATEX certificate

Certificate number: KEMA 08ATEX0023 X

EU Declaration of Conformity Declaration number: EC_00182

UKCA certificate

Certificate number: CML 21UKEX2994X

UKCA Declaration of Conformity Declaration number: UK_00399

Manufacturer address

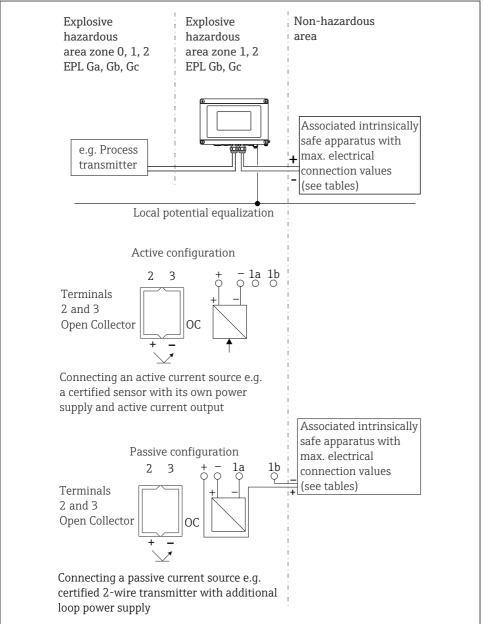
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XA00088R RIA16

Safety instructions:



A0050340

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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
- 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

Туре	Temperature class	Ambient temperature
RIA16	Т6	-40 °C ≤ Ta ≤ +50 °C
	T5	-40 °C ≤ Ta ≤ +60 °C
	T4	-40 °C ≤ Ta ≤ +85 °C

Electrical connection data

Туре	Electrical data	
RIA16	Power supply (Terminals + and -, + and 1b)	$\begin{split} & \text{Ui} = 30 \text{ V}_{\text{DC}} \\ & \text{Ii} = 100 \text{ mA} \\ & \text{Pi} = 750 \text{ mW} \\ & \text{Li} = 0 \text{ mH} \\ & \text{Ci} = 15.2 \text{ nF} \end{split}$
	Open Collector (Terminals 2 and 3)	$\begin{split} &Ui = 30 \ V_{DC} \\ &Ii = 100 \ mA \\ Π = 375 \ mW \\ &Li = 0 \ mH \\ &Ci = 0 \ nF \end{split}$

Category	Type of protection (ATEX/IECEx)	Туре
II2(1)G	Ex ib [ia] IIC T6T4 Gb	RIA16



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