


Safety Instructions

RIA14

Ex d IIC T4/T5/T6 Gb



Document: XA02241K

Safety instructions for electrical apparatus for explosion-hazardous areas →  3

RIA14

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Associated documentation

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

- Operating instructions: BA00278R/09
- Brief operating instructions: KA00277R/09
- Technical information: TI00143R/09

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 → Download → Advanced → Documentation code: CP00021Z

NEPSI Certificate of conformity

Certificate number : GYJ20.1355X

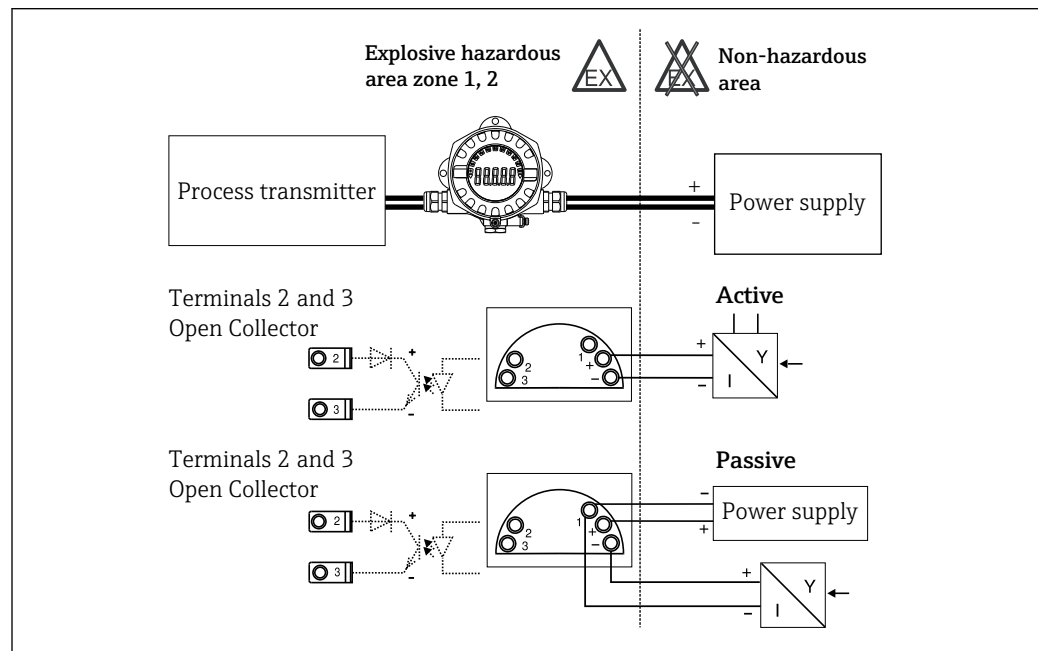
Affixing the certificate number and certificate's conformity with the following standards (depending on the device version):


GB 3836.1-2010

GB 3836.2-2010

GB 3836.4-2010

GB 3836.20-2010

**Safety instructions:
Installation**

 1 Installation of the field indicator

Type of protection flameproof

- Install the device according to the manufacturer's instructions and any other valid standards and regulations.
- The temperature field transmitter is to be connected using suitable cable glands and wire entries of protection type Pressure-tight Enclosure "d".
- Before commissioning the threaded end cap must be fitted tightly and secured using the securing screws tightened.
- Only use approved wire entries according to IEC60079-14/ GBT 3835.15-2017.
- Only the approved wire entries as specified in paragraph 13 of IEC/EN 60079-1 must be used.
- The external earth connection facility should be connected reliably.

- For Ex d product, suitable certified cable glands or blanking plugs for unused holes approved by ExTL according to GB 3836.1-2010 and GB 3836.2-2010 with Ex marking “Ex d IIC Gb” shall be used and correctly installed. The cable glands and blanking plugs to be used shall be suitable for the product working conditions.
- Any maintenance shall be performed only when the warning of "Do not open while the circuit is alive" is observed (Ex d product).
- The user shall not change the configuration in order to maintain/ensure the explosion protection performance of the equipment. Any change may impair safety.
- For installation, use and maintenance of this product, the end user shall observe the instruction manual and the following standards:
 - GB 3836.13-2013 “Explosive atmospheres- Part 13: Equipment repair, overhaul and reclamation”.
 - GB/T 3836.15-2017 “Explosive atmospheres- Part 15: Electrical installations design, selection and erection”.
 - GB/T 3836.16-2017 “Explosive atmospheres- Part 16: Electrical installations inspection and maintenance”.
 - GB/T 3836.18-2017 “Explosive atmospheres-Part 18: Intrinsically safe electrical systems”.
 - GB 50257-2014 “Code for construction and acceptance of electric device for explosion atmospheres and fire hazard electrical equipment installation engineering”.

Special Conditions for Safe Use

The suffix “X” placed after the certificate number indicates that this product is subject to special conditions for safe use, that is:

For information on the dimensions of the flameproof joints contact the manufacturer.

Temperature tables

Type	Ex type	Temperature class	Ambient temperature
RIA14	Ex d	T6	-40 to 55 °C
		T5	-40 to 70 °C
		T4	-40 to 80 °C

Electrical connection data

Type	Electrical data	
RIA14	Power supply (terminals + and -) and Open Collector (terminals 2 and 3)	U ≤ 35 V _{DC} P ≤ 3 W





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