Safety Instructions
RIA14, RIA16

1Ex ib [ia] IIC T6/T5/T4 Gb

Document: XA01462K
Safety instructions for electrical apparatus certified for use in explosion-hazardous areas. → 3
RIA14, RIA16

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Associated documentation

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

- RIA14:
  BA00278R/09
- RIA16:
  BA00280R/09

The Operating Instructions pertaining to the device apply.

Supplementary Documentation

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

EAC certificate of conformity according to TR CU 012/2011

The device meets the fundamental health and safety requirements for the design and construction of devices and protective systems intended for use in potentially explosive atmospheres.

Certification body: НАНИО "ЦСВЭ"
Certificate number: ЕАЭС RU C-DE.AA87.B.00247/19
Affixing the certificate number certifies conformity with the following standards:
GOST 31610.0-2014 (IEC 60079-0:2011)
GOST IEC 60079-1-2011
GOST 31610.11-2014 (IEC 60079-11:2011)

Manufacturer address

Endress+Hauser Wetzer GmbH + Co KG
Obere Wank 1
D-87484 Nesselwang
Germany
Phone: +49 (0)8361 308 0
Safety instructions

**RIA14**

<table>
<thead>
<tr>
<th>Explosive hazardous area zone 0, 1, 2</th>
<th>Explosive hazardous area zone 1, 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPL Ga, Gb, Gc</td>
<td>EPL Gb, Gc</td>
</tr>
</tbody>
</table>

**Active**
Terminals 2 and 3
Open Collector
e.g. process transmitter or sensor

**Passive**
Terminals 2 and 3
Open Collector

![Diagram]

1. Installation of the field indicator
### Safety instructions: Installation

- Install the device according to the manufacturer's instructions and any other valid standards and regulations.
- When interconnecting the rules and regulations for such intrinsically safe circuits must adhered to.
- The field display 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.
## Temperature tables

<table>
<thead>
<tr>
<th>Type</th>
<th>Temperature class</th>
<th>Ambient temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>RIA14</td>
<td>T6</td>
<td>–40 to 50 °C</td>
</tr>
<tr>
<td></td>
<td>T5</td>
<td>–40 to 60 °C</td>
</tr>
<tr>
<td></td>
<td>T4</td>
<td>–40 to 85 °C</td>
</tr>
<tr>
<td>RIA16</td>
<td>T6</td>
<td>–40 to 50 °C</td>
</tr>
<tr>
<td></td>
<td>T5</td>
<td>–40 to 60 °C</td>
</tr>
<tr>
<td></td>
<td>T4</td>
<td>–40 to 85 °C</td>
</tr>
</tbody>
</table>

## Electrical connection data

<table>
<thead>
<tr>
<th>Type</th>
<th>Electrical data</th>
</tr>
</thead>
<tbody>
<tr>
<td>RIA14, RIA16</td>
<td>Power supply (Terminals + and -, + and 1)</td>
</tr>
<tr>
<td></td>
<td>$U_i = 30 \text{ V}_{\text{DC}}$</td>
</tr>
<tr>
<td></td>
<td>$I_i = 100 \text{ mA}$</td>
</tr>
<tr>
<td></td>
<td>$P_i = 750 \text{ mW}$</td>
</tr>
<tr>
<td></td>
<td>$L_i = 0 \text{ mH}$</td>
</tr>
<tr>
<td></td>
<td>$C_i = 15.2 \text{ nF}$</td>
</tr>
<tr>
<td>Open Collector (Terminals 2 and 3)</td>
<td>$U_i = 30 \text{ V}_{\text{DC}}$</td>
</tr>
<tr>
<td></td>
<td>$I_i = 100 \text{ mA}$</td>
</tr>
<tr>
<td></td>
<td>$P_i = 375 \text{ mW}$</td>
</tr>
<tr>
<td></td>
<td>$L_i = 0 \text{ mH}$</td>
</tr>
<tr>
<td></td>
<td>$C_i = 0 \text{ nF}$</td>
</tr>
</tbody>
</table>