

ATX™ RSI Series Intrinsic Safety Relays for Safe Areas

For Flameproof Enclosures

ATEX:
Zone 1 and 2 – 21 and 22
 Ⓢ II 2 GD
 IP66 – IK10

Applications

- Single Channel Relay:
 - For installation in a safe area (NIS area) or Exd box.
- 2-Channel Relay:
 - For installation in a safe area (NIS area).

Features

- Single and 2-Channel Relay:
 - Provides galvanic isolation of the circuits between the IS area and the NIS area.
 - Mounting on EN 50 022 rail.
 - Input signal (from hazardous area) selected by jumpers:
 - 2-wire NAMUR proximity switch.
 - Volt-free contact (switched current 8.2. V, 8 mA).
 - Direct or reverse repeater selected by jumper.
 - Connection: 2-conductr cable, dielectric strength 500 V, cross-section 2.5 mm² (0.004 in²), distance between cables: 8 mm (0.315”).
 - Connection: 2.5 mm² (0.004 in²) maximum
- Single Channel Relay:
 - Transmits to the safe (NIS) area one signal received from the hazardous (IS) area.
 - Relay can be supplied with 24 – 28 Vdc, 110 – 140 Vac, 200 – 240 V.
 - Output signal (safe area) - electromagnetic relay, 1 changeover switch:
 - 6 Amp maximum (at 24 V)
 - Maximum: 5 Amp, 250 V, 10 Hz (switching frequency)
- 2-Channel Relay:
 - Transmits to the safe (NIS) area two signals received from the hazardous (IS) area.
 - Relay can be supplied with 24 – 48 Vdc, 110 – 140 V, 200 – 240 V.
 - Output signal (safe area) – electromagnetic relay, 2 changeover switches:
 - 6 A maximum (at 24 V)
 - Maximum: 5 Amp, 250 V, 10 Hz (switching frequency)

ATEX Certifications and Compliances

- Certification Type RDN
 - Gas, Zones 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓢ II 1 G
 - Dust, Zones 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓢ II 1 D
 - Type of Protection: Ex ia IIC
 - Surface Temperature: -10 °C to +60 °C (-14 °F to +140 °C)
 - CE Declaration of Conformity: 50270

Other Certification

- SIL 2

1-Channel Relay



2-Channel Relay



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Catalog Numbering Guide

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 Series:
 ATEX Certified

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 Channel Number:
 1 - Single channel
 2 - Two channel

11
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 Voltage:
 04D - 24 - 48 Vdc
 14A - 110 - 140 Vac 50/60 Hz
 24A - 200 - 240 Vac 50/60 Hz

Relays

Description	Catalog Number
Single Channel Relay	
200 - 240 V - 50/60 Hz	RSI124A
110 - 140 V - 50/60 Hz	RSI114A
24 - 48 V - 50/60 Hz	RSI104D
2-Channel Relay	
200 - 240 V - 50/60 Hz	RSI224A
110 - 140 V - 50/60 Hz	RSI214A
24 - 48 V - 50/60 Hz	RSI204D

Dimensions in Millimeters (Inches)

