RSI Series Intrinsic Safety Relays for Safe Areas

For Flameproof Enclosures

Zone 1 and 2 - 21 and 22 Gas (G) and Dust (D)

Applications

- Single Channel Relay:
 - For installation in a safe area (NIS area) or Exd box.
- - 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 stregth 500 V, crosssection 2.5 mm², distance between cables: 8 mm.
 - Connection: 2.5 mm² 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 V, 200-240 V.
 - Output signal (safe area) electromagnetic relay,
 - 1 changeover switch:
 - 6 A maximum (at 24 V)
 - Maximum: 5a, 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 A, 250 V, 10 Hz (switching frequency)

Certifications and Compliances

♦ATEX Certification

- 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
 - CE Declaration of Conformity: 50270

♦ Others Certification

1-Channel Relay



2-Channel Relay



RSI Series Intrinsic Safety Relays for Safe Areas

For Flameproof Enclosures

Zone 1 and 2 - 21 and 22 Gas (G) and Dust (D)

Catalog Numbering Guide

U Series: ATEX Certified

3 Channel Number: 1 - Single channel 2 - Two channel

<u>11</u> Voltage: 04D - 24 - 48 Vďc 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

