

Control Stations & Switches: Components for Flameproof Enclosures

RSI Series: Intrinsic Safety Relays for Safe Areas

Zone 1 & 2 - 21 & 22

Ⓜ II 2 GD

ATEX / IEC

IP66 - IK10



1-Channel Relay



2-Channel Relay



Intrinsic Safety Terminals

Compliance Data:

ATEX - IEC:

Safe Area / Zone 0	ATEX	II 2 GD	IEC	EC
Ex ia IIC				

Service Temperature:

-10°C to 60°C				
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RSI Series: Intrinsic Safety Relays for Safe Areas

Zone 0 (Safe Area)

⊕ II 2 G / D

Ex ia IIC

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).
- Intrinsic Safety Terminal:
- For installation in a hazardous area (IS 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, 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)

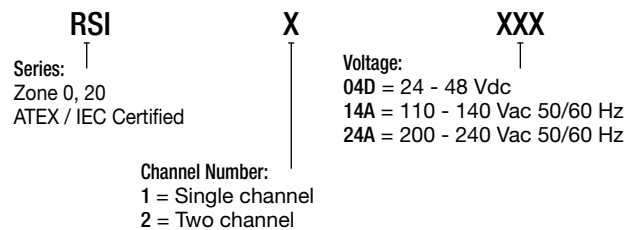
2-Channel Relay:

- 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)

Intrinsic Safety Terminal:

- Can be clipped on symmetrical and asymmetrical DIN rail.
- Maximum clamping capacity 4 mm².
- 6 mm pitch.

Catalog Number Logic:



Compliances:

Hazardous Area	Gas	Dust
Certification Type	RDN	
Zones	0	
Conforming to ATEX 94/9/CE	CE 0081 ⊕ II 1 G	CE 0081 ⊕ II 1 D
Symbol of Protection ATEX	Ex ia IIC	
Symbol of Protection IEC	-	
T Rating	-	
Surface Temperature	-	
Ambient Temperature	-10°C to +60°C	
CE Declaration of Conformity	50270	
ATEX Certificate	LCIE 02 ATEX 6104X	
IEC Certificate	-	
Other Certifications	SIL 2	
Index Protection (solid and liquid)	-	
Impact Resistance (shock)	-	

Ordering Information:

Relays and Safety Terminals

Description	Catalog Number	Old Catalog Number
Single Channel Relay		
200 - 240 V - 50/60 Hz	RSI124A	096631
110 - 140 V - 50/60 Hz	RSI114A	096632
24 - 48 V - 50/60 Hz	RSI104D	096633
2-Channel Relay		
200 - 240 V - 50/60 Hz	RSI224A	096640
110 - 140 V - 50/60 Hz	RSI214A	096641
24 - 48 V - 50/60 Hz	RSI204D	096642
Intrinsic Safety Terminal		
4 mm ² terminals (set of 10)	TBIS0410	096600

Standards:

Ex Standards	EN / IEC 60079-0; 60079-11; 61241-0; 61241-1
Product Standards	-
EMC Standards	EN / IEC 61326; 61000-6-2
Other Standards	EN / IEC 1010-1

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Dimensions (mm):

