THRESHOLD AMPLIFIER, INTRINSIC SAFETY
RDN 11

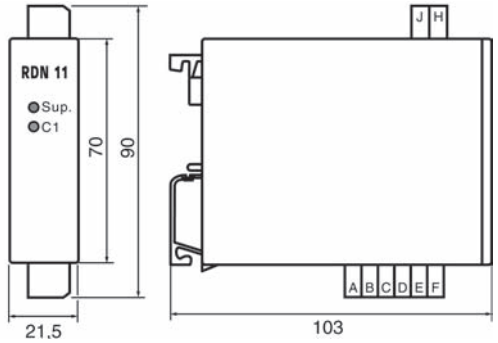
- **Protection for Reed contacts, Voltage free switches...**
- **Change over switch output**
- **DIN rail mounting, ABS housing**
- **Intrinsic safety acc. EN 50014 / EN50020**

APPLICATION

Amplifiers with galvanic insulated relay for protection of low voltage switch with intrinsic safety circuit in Ex area.

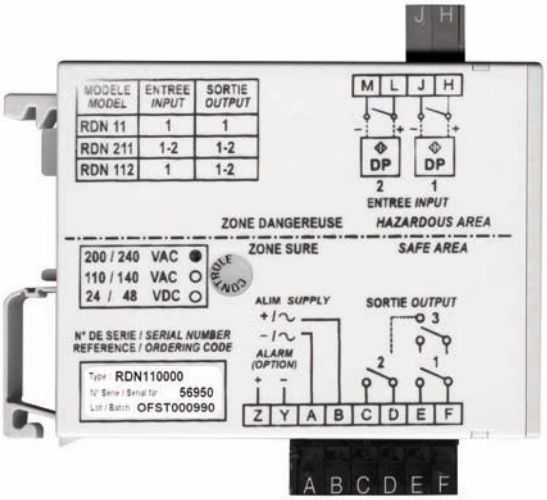
TECHNICAL FEATURES

Main supply	: 230 V AC ±10% - 48/62 Hz : 110 V AC ±10% *(on request)* : 24 to 48 V DC ±10% *(on request)*
Front signalization	: Green LED when power is ON
Consumption	: 4.5 VA or 1.6 W
Input signal	: *(from Ex area)* Voltage free contact
Output signal	: *(to safe area)* Change over contact, 250 V, 5A, 100 VA as a maximum
Response time	: 20 ms *(relay)*, 100µs *(transistor)*
Switch frequency	: 10 Hz as a maximum. Front red LED is lighting when corresponding relay output is energized or when output transistor is "ON"
Galvanic insulation	: Between Input / Output / Supply
Alternative current supply	: 2500 V AC - 50 Hz
Direct current supply	: 2500 V AC - 50 Hz



MECHANICAL DATA

Installation	: In safe area
Housing	: ABS
Net weight	: 200 g
Storage temperature	: -25 to 70°C
Operating temperature	: 0 to 60°C
Ambient	: 5 to 95% HR, no condensing
Connections	: Plug-in clamp terminals
Mounting	: DIN rail EN 50022
Configuration	: Input and function through switches



STANDARDS and CERTIFICATES

EMC	: Immunity EN 50082-2-1995, Emission EN 50081-2-1993
Low Voltage Directive	: IEC 1010-1 Category II (over voltage)
Intrinsic Safety	: EN 50014 / EN 50020 (EEx ia) IIC
LCIE certificate n°	: 02 ATEX 6104 X
Certification	: ATEX Ce0081 Ex II (1) G/D

CODE NUMBER AND REFERENCE

251 011 RDN 11 - 230 V - 50 Hz - 1 change over switch

PROCESSING

When the contact is closed between J and H in EX area, the relay DEF status changes, then the circuit EF is closed (F = neutral).

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