



- Slim design – 12 mm width
- Choice of circuitry of coil and contact between Ex i or non-Ex i (Ex e)
- Integrated fuse for contact and coil circuit integrated
- Can be used up to SIL 3 (IEC/EN 61508)

A3

## MY R. STAHL 9177A



The Ex i/Ex e relay module type 9177 is an automation solution for hazardous areas in Zone 1, 2, 21 and 22 and in safe areas and permits galvanically separated switching of intrinsically safe (Ex i) and non-intrinsically safe (non-Ex i) electrical circuits. Both Ex i and non-Ex i electrical circuits can be connected to its coil and contact connections. Thanks to the integrated fuse for the contact and coil circuit, additional integrated fuse is not necessary.

	IECEX / ATEX					
Zone	0	1	2	20	21	22
Ex interface	•	•	•	•	•	•
Installation in		•	•			

Selection Table				
Number of channels	1			
Output (contact)	Product Type	Art. No.	Weight	
Ex i or non-Ex i (Ex e)	9177/12-11-01	273000	110 g	

Technical Data	
Explosion Protection	
IECEX gas explosion protection	Ex eb mb [ia Ga] IIC T4 Gb
IECEX dust explosion protection	[Ex ia Da] IIIC
ATEX gas explosion protection	Ex II 2 (1) G Ex eb mb [ia Ga] IIC T4 Gb
ATEX dust explosion protection	Ex II (1) D [Ex ia Da] IIIC
Certificates	ATEX (TUR), IECEX (TUR), Korea (KTL), SIL (exida)
Declaration of Conformity	ATEX (EUK)
Further information	Other Ex markings (see operating instructions)
Safety Data	
Max. voltage $U_c$ (coil)	32 V DC
Max. current $I_c$ (coil)	Internally limited
Internal capacitance $C_i$ (coil)	≈ 0 nF
Internal inductance $L_c$ (coil)	≈ 0 mH
Max. safety voltage $U_m$ (coil)	60 V DC
Max. voltage $U_j$ (contact)	253 V AC 125 V DC

## Technical Data

### Safety Data

Max. current I <sub>c</sub> (contact)	≤ 2 A
Internal capacitance C <sub>i</sub> (contact)	≈ 0 nF
Internal inductance L <sub>i</sub> (contact)	≈ 0 mH
Max. safety voltage U <sub>m</sub> (contact)	253 V AC 125 V DC

### Functional Safety

SIL	3
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### Input

Voltage range input X1	18 to 32 V DC
Input voltage for ON	> 17.5 V
Input voltage for OFF	< 3 V

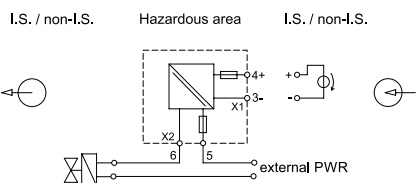
### Ambient Conditions

Ambient temperature	-40 °C ... +70 °C
Note	Temperature reduction depending on mounting (see operating instructions)

### Mounting / Installation

Mounting type	DIN rail NS35/15, NS35/7.5
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## Technical Drawings – Subject to Alterations



## Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations

