

- Requires little space – width of 12 mm
- Durable module thanks to maintenance-free electronic switching: Ideal for frequent switching operations
- Enables use in Zone 1

MY R. STAHL **9174A**

The Series 9174 compact electronic relay module allows Ex e loads to be switched by an intrinsically safe control system. This complements intrinsically safe binary outputs, e.g. in a remote I/O system. The electronic switch prevents mechanical wear, extending the life of the relay, particularly where frequent switching operations are concerned.

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

Selection Table				
Number of channels	1			
Input	Output	Product Type	Art. No.	Weight
Ex i	non-Ex i (Ex e) DC	9174/10-14-00	212340	110 g
Ex i or non-Ex i (Ex e)	non-Ex i (Ex e) AC	9174/12-15-01	282457	110 g

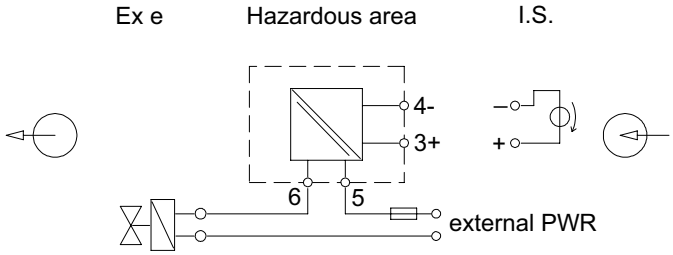
Technical Data		
Variant	**9174/10-14-00**	**9174/12-15-01**
Explosion Protection		
IECEx gas explosion protection	Ex eb mb [ib Gb] IIC T4 Gb	Ex eb mb [ia Ga] IIC T4 Gb
IECEx dust explosion protection	[Ex ib Db] IIIC	[Ex ia Da] IIIC
ATEX gas explosion protection	⟨Ex⟩ II 2 G Ex eb mb [ib Gb] IIC T4 Gb	⟨Ex⟩ II 2 (1) G Ex eb mb [ia Ga] IIC T4 Gb
ATEX dust explosion protection	⟨Ex⟩ II (2) D [Ex ib Db] IIIC	⟨Ex⟩ II (1) D [Ex ia Da] IIIC
Certificates	ATEX (BVS), IECEx (BVS)	ATEX (TUR), IECEx (TUR), Korea (KTL)
Declaration of conformity	ATEX (EUK)	ATEX (EUK)
Safety Data		
Max. voltage Ui (input)	28 V	32 V
Max. current Ii (input)	150 mA	Internally limited
Max. power Pi (input)	780 mW	Internally limited
Internal capacitance Ci (input)	1.2 nF	0 nF
Internal inductance Li (input)	0 mH	0 mH
Max. safety voltage U_m (input)		60 V DC
Max. safety voltage U_m (output)	253 V AC	253 V AC
Back-up fuse rated operational current	3.15 A	

A3

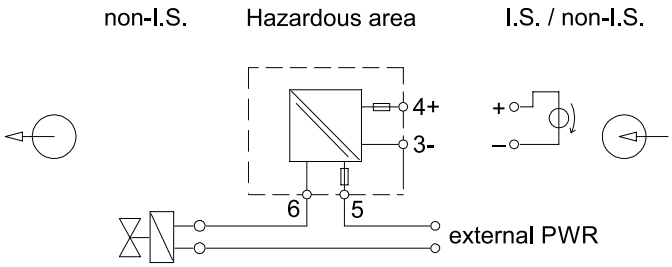
Technical Data

Variant	9174/10-14-00	9174/12-15-01
Electrical Data		
Notes		Switching between Ex i and non-Ex i (Ex e) operation of the input is permitted without restrictions.
Auxiliary Power		
Auxiliary power	without	without
Max. power dissipation	1.42 W	1 W per A switching current
Galvanic Isolation		
Test voltage as per standard	EN IEC 60079-11	EN IEC 60079-11
Input		
Input voltage for ON	14 – 28 V	> 17.5 V
Input current for ON	> 15 mA	> 8.5 mA
Input voltage for OFF	0 – 5 V	< 16 V
Output		
Max. output voltage	31,2 V DC	
Max. output current	2 A	5 A
Resistive load switching frequency	< 30 Hz	< 50 Hz
Note	Switching frequency: Please note the limitations based on the load characteristics. See operating instructions.	The output is switched in the alternating voltage zero crossing.
Ambient Conditions		
Ambient temperature	-20 °C ... 65 °C	-40 °C ... 75 °C
Storage temperature	-40 °C ... 80 °C	-40 °C ... 80 °C
Mounting / Installation		
Mounting type	DIN rail NS35/15, NS35/7.5	DIN rail NS35/15, NS35/7.5

Technical Drawings – Subject to Alterations

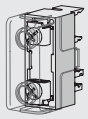


Connection diagram 9174/10



Connection diagram 9174/12

Spare Parts

Figure	Description	Art. No.	Weight
Small fuse element Series 8560			
	Back-up fuse for the Ex e connection of the electronic relay type 9174/10-14-00. Rated operational current: 3.15 A Packaging unit: 5 pieces	149171	210 g

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

