

	INTERNATIONAL E IEC Certification S for rules and deta	ELECTROTECHNICAL COMMISSION System for Explosive Atmospheres ails of the IECEx Scheme visit www.iecex.com	
Certificate No.:	IECEx BVS 09.0002X	Page 1 of 4	Certificate history:
Status:	Current	Issue No: 3	Issue 2 (2012-03-23) Issue 1 (2011-02-17)
Date of Issue:	2020-12-18		Issue 0 (2009-01-09)
Applicant:	R. STAHL Schaltgeräte GmbH Am Bahnhof 30 74638 Waldenburg Germany		
Equipment:	I.S. Relay Module type 9172/**-11-	-00	
Optional accessory	<i>r</i> .		
Type of Protection:	Intrinsic Safety "i", Type of Prote	ction "n", Increased Safety "e"	
Marking:	Ex ec nC [ia Ga] IIC T4 Gc [Ex ia Da] IIIC		
Approved for issue Certification Body:	on behalf of the IECEx	Dr Michael Wittler	
Position:		Deputy Head of Certification Body	
Signature: (for printed version))		
Date:			
 This certificate and This certificate is n The Status and au 	d schedule may only be reproduced in full. ot transferable and remains the property of the thenticity of this certificate may be verified by vi	issuing body. isiting www.iecex.com or use of this QR Code.	
Certificate issue	ed by:		
DEKRA Testing Certification B Dinnendahlstra	g and Certification GmbH ody asse 9		DEKRA

44809 Bochum Germany

On the safe side.



Certificate No.: IECEx BVS 09.0002X

Date of issue: 2020-12-18

Page 2 of 4

Issue No: 3

Manufacturer: R. STAHL Schaltgeräte GmbH Am Bahnhof 30 74638 Waldenburg Germany

Additional manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-11:2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-15:2017 Edition:5.0	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
IEC 60079-7:2017 Edition:5.1	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

DE/BVS/ExTR09.0004/02

Quality Assessment Report:

DE/BVS/QAR10.0002/16



Certificate No .:

IECEx BVS 09.0002X

2020-12-18

Date of issue:

Page 3 of 4

Issue No: 3

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Subject and Type

See Annex

Description of product

The I.S. Relay Module type 9172 is an associated apparatus per IEC 60079-11 equipped with relays in type of protection "nC" and terminals in type of protection "ec". The intrinsically safe circuits are galvanically separated from each other, as from the non I.S. signal circuits.

The I.S. relay modules type 9172/*0-11-00 and 9172/*2-11-00 receive the signals from the intrinsically safe circuits applied to their input and transmit the signal status to the output and reverse. The type 9172/*1-11-00 receives the signals from the non-intrinsically safe circuit applied to its input and transmits the signal status to the intrinsically safe circuits on the output.

The I.S. Relay Modules may be installed in Zone 2 or outside hazardous areas.

Listing of all components used referring to older standards

None

Parameters

See Annex

SPECIFIC CONDITIONS OF USE: YES as shown below:

For EPL Gc:

- The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.
- The equipment shall be installed in an enclosure that provides a minimum ingress protection of IP54 in accordance with IEC 60079-0. • For type 9172/*1-11-00: The short-circuit current of the supplying source may not exceed 80 A



Certificate No.: IECEx BVS 09.0002X

Page 4 of 4

Issue No: 3

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

2020-12-18

- Assessment of I.S. relay module in accordance with the current standard versions

- Update of marking and documentation
- The standard IEC 60079-26 is not listed anymore, because EPL Ga is ensured by intrinsic safety ia.

The standard IEC 60079-26 does not impose additional requirements on the apparatus.

Annex:

Date of issue:

BVS_09_0002X_RStahl_Annex_issue3.pdf





Certificate No.:

IECEx BVS 09.0002X issue No: 3 Annex Page 1 of 2

Subject and Type

I.S. relay module type 9172/**-11-00

Instead of the *** in the complete denomination numerals will be inserted which characterize modifications:



- Type 9172/*0-11-00 1
- 1.1 Intrinsically safe input circuits Terminals 10 - 11 and 14 - 15

Values for each channel: Maximum input voltage Maximum input current Maximum input power	Ui li Pi	DC	30 150 1.3	V mA W
Effective internal capacitance	Ci		neg	ligible
Effective internal inductance	Li		neg	ligible

1.2 Non-intrinsically safe output circuits Terminals 1, 2, 3 and 4, 5, 6 Maximum voltage

Um	AC	253	V

Values for each channel according to the following table:

Voltage	AC 253	DC 220	AC 125 V	DC 125 V	DC 60 V	DC 30 V
	V	V				
Current	4 A	0.1 A	4 A	0.25 A	0.3 A	4 A
Power	100 VA		100 VA			100 W

2 Type 9172/*1-11-00

2.1 Non-intrinsically safe input circuits Terminals 1, 2 and 5, 6 Maximum voltage Nominal voltage Nominal current

AC	253	V
DC	24	V
	22	mA
	AC DC	AC 253 DC 24 22





Certificate No.:

3 3.1

3.2

4

IECEx BVS 09.0002X issue No: 3

Annex

Page 2 of 2

2.2 Intrinsically safe output circuits Terminals 10, 11, 12 and 13, 14, 15

Values for each channel according to the following table:						
Voltage Ui	AC 45 V	DC 45 V	DC 30 V			
Current Ii	4 A	0.25 A	4 A			
Effective internal capacitance C _i negligible Effective internal inductance L _i negligible						ligible ligible
Type 9172/*2-11-00 Intrinsically safe input c Terminals 10, 11 and 1	ircuits 4, 15					
Values for each channe Maximum input voltage Maximum input current Maximum input power	91: 9		Ui I _i Pi	DC	30 150 1.3	V mA W
Effective capacitanceCinoEffective inductanceLino					neg neg	ligible ligible
Intrinsically safe output circuits (for type 9172/*2-11-00) Terminals 1, 2, 3 and 4, 5, 6						
Values for each channel according to the following table:						
Voltage Ui	AC 45 V	DC 45 V	DC 30 V			
Current Ii	4 A	0.25 A	4 A			

	C	- pogligiblo
Effective internal inductance	Li	negligible
Ambient temperature range	Ta	-20 °C up to +70 °C