

IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION

IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Ex COMPONENT CERTIFICATE

Certificate No.:	IECEx BVS 07.0029U	Page 1 of 4	Certificate history:
Status:	Current	Issue No: 3	Issue 2 (2016-01-12) Issue 1 (2011-07-08)
Date of Issue:	2023-02-23		Issue 0 (2007-11-30)
Applicant:	R. STAHL Schaltgeräte GmbH Am Bahnhof 30 74638 Waldenburg Germany		
Ex Component:	Control unit type 8510/1**-**-***-***		

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Flameproof Enclosures "d", Intrinsic Safety "i", Increased Safety "e" Type of Protection:

Marking:

Ex db eb IIC Gb	or	Ex db eb I Mb	or
Ex db eb [ib] IIC Gb	or	Ex db eb [ib] l Mb	or
Ex db eb [ia Ga] IIC Gb	or	Ex db eb [ia Ma] I Mb	

Approved for issue on behalf of the IECEx Certification Body:

Position:

Signature: (for printed version)

Date: (for printed version)

This certificate and schedule may only be reproduced in full.
This certificate is not transferable and remains the property of the issuing body.
The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

DEKRA Testing and Certification GmbH Certification Body Dinnendahlstrasse 9 44809 Bochum Germany



Certification Manager







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Date of issue:	2023-02-23	Issue No: 3						
Manufacturer:	R. STAHL Schaltgeräte GmbH Am Bahnhof 30 74638 Waldenburg Germany							
Manufacturing locations:	R. STAHL Schaltgeräte GmbH Am Bahnhof 30 74638 Waldenburg Germany							
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 component 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 Explosive atmospheres - Part 0: Equipment - General requirements Edition:7.0								
IEC 60079-1:2014-0 Edition:7.0	6 Explosive atmospheres - Part 1: Equipment protec	tion by flameproof enclosures "d"						
IEC 60079-11:2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment prote	ction by intrinsic safety "i"						
IEC 60079-7:2017 Edition:5.1	Explosive atmospheres - Part 7: Equipment protec	tion by increased safety "e"						
	This Certificate does not indicate compliance other than those expressly included							
TEST & ASSESSMENT REPORTS: A sample(s) of the component listed has successfully met the examination and test requirements as recorded in:								

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

Test Report:

DE/BVS/ExTR07.0035/02

Quality Assessment Report:

DE/BVS/QAR10.0002/17



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Ex Component(s) covered by this certificate is described below:

Type code

See Annex

Description

The control unit is an enclosure that meets the requirements of the type of protection Flameproof Enclosure. It is equipped with electrical and electronic components. This may include devices (Ex components and / or Ex equipment) with intrinsically safe circuits, which have been separately tested and certified. After the components are mounted, the enclosure is closed by a cover which is cemented to the enclosure.

The cover of the enclosure is equipped with several connection facilities. There are two sizes of connection facilities; larger size for the main circuits, and a smaller size for the auxiliary circuits.

These facilities are a combination of feedtroughs and terminals. The terminals meet the requirements of the type of protection Increased Safety.

Optionally the cover is equipped with one or more bushes with operating rods.

The control unit is intended to be mounted inside an enclosure in type of protection Increased safety.

Listing of all components used referring to older standards

None

Parameters

See Annex

SCHEDULE OF LIMITATIONS:

After installation of the control unit into an enclosure in type of protection Increased Safety "e", the clearances and creepage distances have to meet the requirements of IEC 60079-7.

If the control unit is equipped with separately tested and certified devices with intrinsically safe circuits (IS-devices), the following applies:

The instructions of the IS-devices have to be followed in addition to the instructions of the control unit.

If the grouping of the IS-device is not IIC, the grouping of the control unit has to be downgraded to the grouping of the IS-device.

If the requirements of the SPECIFIC CONDITIONS FOR USE of the IS device could not be met with the equipment of the Ex component, the requirements must be passed on to the user.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

2023-02-23

- IEC 60079-0 is updated to edition 7.0
- IEC 60079-7 is updated to edition 5.1
- A TR-annex for IEC 60079-11 is added.
- Modification of the enclosure materials
- Type 8510/121-... and type 8510/142-... are removed from the list of permissible types.

Annex:

BVS_07_0029U_STAHL_Annex_issue_3_.pdf



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Annex

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						ГС	ige	1011					
Туре со	bde												
8510	/	1	*	*	-	**	-	***	-	***	-	**	
а		b	с	d		е		f		g		h	
a	a Type series												
b Generation													
c Enclosure size [mm] 1 - 130×48 2 - 130×70 3 - 130×115 4 - 130×80 - permissible combinations: 11, 12, 22, 31, 32 ar													
d Enclosure height [mm] 1 - 110.5 2 - 168													
е	Ver	sion	: Ki	nd o	of b	uilt-in	со	mpone	ent	_			
f - h	Furt	her	info	orma	atio	n reg	ard	ing bu	ilt-iı	n comp	oon	ent	
ParametersLimits of the service temperatures depending on the material or-20 °C up to 110 °C -20 °C up to 100 °C													
Rated voltage											up to AC 690 V		
Permiss - for the finely solid - for the finely solid - for the finely solid	mai stra cone mai stra cone aux stra	in co inde duct in co inde duct duct duct	onta ed c onta onta ed c or y co	acts ond acts ond	typ uct all uct	e 85' or other or	10/1		****	_**			0.75 mm ² up to 1.5 mm ² 0.75 mm ² up to 2.5 mm ² 0.75 mm ² up to 6 mm ² 0.75 mm ² up to 10 mm ² 0.75 mm ² up to 1.5 mm ² 0.75 mm ² up to 2.5 mm ²
							-						

Turno	max. T _a at Temperature class								
Туре	Т6	Т5	T4 and group I						
8510/111	60 °C	60 °C	60 °C						
8510/112	60 °C	60 °C	60 °C						
8510/122	50 °C	60 °C	60 °C						
8510/131	60 °C	60 °C	60 °C						
8510/132	45 °C	60 °C	60 °C						
8510/141	60 °C	60 °C	60 °C						