EG-Konformitätserklärung EC Declaration of Conformity Déclaration de Conformité CE



R. STAHL Schaltgeräte GmbH • Am Bahnhof 30 • 74638 Waldenburg, Germany

erklärt in alleiniger Verantwortung, declares in its sole responsibility, déclare sous sa seule responsabilité,

dass das Produkt: that the product: que le produit:

Typ(en), type(s), type(s):

Abzweigdose Junction box Boite de dérivation

8102/2*-**

mit den Anforderungen der folgenden Richtlinien und Normen übereinstimmt. is in conformity with the requirements of the following directives and standards. est conforme aux exigences des directives et des normes suivantes.

Richtlinie(n) Directive(s) Directive(s)		Norm(en) Standard(s) Norme(s)		
94/9/EG: 94/9/EC: 94/9/CE:	ATEX-Richtlinie ATEX Directive Directive ATEX	EN 60079-0:2012 EN 60079-7:2007 EN 60079-11:2012 EN 60079-31:2009		
Kennzeichnung, marking, marquage:		⟨Ex⟩ II 2 G Ex e ia IIC T6, T5 Gb II 2 D Ex tb IIIC T80 °C, T 95 °C Db	C€ 0158	
EG-Baumuste	erprüfbescheinigung:	PTB 01 ATEX 1136	v, NB0102)	
EC Type Exam	nination Certificate:	(Physikalisch-Technische Bundesanstalt,		
Attestation d'e	xamen CE de type:	Bundesallee 100, 38116 Braunschweig, Germany		
Produktnormen nach Niederspannungsrichtlinie:		EN 60670-22: 2006		
Product standards according to Low Voltage Directive:		EN 60998-1:2004		
Normes des produit pour la Directive Basse Tension:		EN 60999-1:2000		
2004/108/EG: EMV-Richtlinie		EN 60670-22: 2006		
2004/108/EC: EMC Directive		EN 60998-1:2004		

EN 60999-1:2000

Spezifische Merkmale und Bedingungen für den Einbau siehe Betriebsanleitung. Specific characteristics and how to incorporate see operating instructions. Caractéristiques et conditions spécifiques pour l'installation voir le mode d'emploi.

Waldenburg, 2014-11-04

2004/108/CE: Directive CEM

Ort und Datum Place and date Lieu et date

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Werner Förstner Leiter Zertifizierung Schaltgeräte Head of Certification Switchgear Chef de Certification Appareillage

i.V.

J.-P. Rückgauer Leiter Qualitätsmanagement Director Quality Management Directeur Assurance de Qualité

IECEX IECEX Of Conformity						
	INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres for rules and details of the IECEx Scheme visit www.iecex.com					
Certificate No.:	IECEx PTB 15.0010	issue No.:0	Certificate history:			
Status:	Current					
Date of Issue:	2015-04-30	Page 1 of 3				
Applicant:	R. STAHL Schaltger Am Bahnhof 30 74683 Waldenburg Germany	äte GmbH				
Electrical Apparatus: Optional accessory:	Junction Box Type 81	02/**_**				
Type of Protection:	Increased Safety "e",	Intrinsic Safety "ia/ib", Protection by Enclos	ure "tb"			
Marking:	Ex e IIC T6, T5 Gb Ex ia/ib IIC T6 Gb Ex tb IIIC T80 °C, T90	0 °C Db				
Approved for issue on I Certification Body:	behalf of the IECEx	DrIng. Uwe Klausmeyer				
Position:		Head of Department Explosion Protection in I	Energy Technology			
Signature: (for printed version)						
Date:						
 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 the Official IECEx Website. 						
Certificate issued by:						
Physikalisch-Technische Bundesanstalt (PTB) Bundesallee 100 38116 Braunschweig Germany						

	IECE of (ix Certificate Conformity		
Certificate No.:	IECEx PTB 15.0010			
Date of Issue:	2015-04-30	Issue No.: 0		
Manufacturer:	R. STAHL Schaltgerät Am Bahnhof 30 74683 Waldenburg Germany	Page 2 of 3		
Additional Manufacturing loc (s):	ation			
This certificate is issued as a found to comply with the IEC covered by this certificate, w certificate is granted subject as amended.	verification that a sample(s), represented by the sample of the sample of the same set of the same set of the same set out in IEC to the conditions as set out in IEC to the same set o	esentative of production, was assessed and tested and manufacturer's quality system, relating to the Ex products with the IECEx Quality system requirements. This CEx Scheme Rules, IECEx 02 and Operational Documents		
STANDARDS: The electrical apparatus and documents, was found to co	l any acceptable variations to it sp mply with the following standards	pecified in the schedule of this certificate and the identified		
IEC 60079-0 : 2011	Explosive atmospheres - Part 0	: General requirements		
IEC 60079-11 : 2011	Explosive atmospheres - Part 1	1: Equipment protection by intrinsic safety "i"		
IEC 60079-31 : 2013	Explosive atmospheres - Part 3	1: Equipment dust ignition protection by enclosure "t"		
IEC 60079-7 : 2006-07 Edition: 4	Explosive atmospheres - Part 7	Equipment protection by increased safety "e"		
This Certificate does not	indicate compliance with electrica expressly included in the	al safety and performance requirements other than those Standards listed above.		
TEST & ASSESSMENT RE A sample(s) of the equipment	PORTS: nt listed has successfully met the	examination and test requirements as recorded in		
<u>Test Report:</u> DE/PTB/ExTR12.0092/00				
Quality Assessment Report:				
DE/BVS/QAR10.0002/05				

Certificate No.: ECEX.PTB 15.0010 Date of Issue: 2015-04-30 Issue No.: 0 Page 3 of 3 Schedule EQUIPMENT: Equipment and systems covered by this certificate are as follows: Description of equipment The junction box, type 8102/**-**, consists of a plastics enclosure that accommodates four mantle terminals as well as a erminal for the protective conductor. The box, type 8102/**-** will only be used for non-intrinsically safe circuits, while type 8102/22-** will only be used for ntrinsically safe circuits. The mantle terminal consists of a slotted bolt with thread M7 x 0.75 as well as a closed terminal nut with a sprung thrust tad. The junction box will be provided either with – separately certified – cable entries or integrated cable antrities. "urther information see Annex. "Urther information see Annex.		IECE of C	x Certificate Conformity			
Date of Issue: 2015-04-30 Issue No.:0 Page 3 of 3 Schedule EQUIPMENT: Equipment and systems covered by this certificate are as follows: Description of equipment The junction box, type 810271-**, consists of a plastics enclosure that accommodates four manife terminals as well as a immunal for the protective conductor. The box, type 810271-**, will only be used for non-intrinsically safe circuits, while type 810272-** will only be used for non-intrinsically safe circuits. The manife terminal consists of a slotted bolt with thread M7 x 0.75 as well as a closed terminal nut with a sprung thrust zad. The junction box will be provided either with – separately certified – cable entries or integrated cable antrites. E-urther information see Annex. Description of CERTIFICATION: NO	Certificate No.:	IECEx PTB 15.0010				
Page 3 of 3 Schedule Page 3 of 3 Schedule Page 3 of 3 Page 3 of 4 Page 3 of 3 Page 3 of 3 Page 3 of 4 Page 3 Page	Date of Issue:	2015-04-30	Issue No.: 0			
Schedule EQUIPMENT: Equipment and systems covered by this certificate are as follows: Description of equipment The junction box, type 8102/21-**, consists of a plastics enclosure that accommodates four manife terminals as well as a firminal for the protective conductor. The box, type 8102/21-**, will only be used for non-intrinsically safe circuits, while type 8102/22-** will only be used for thtmscally safe circuits. The manife terminal consists of a slotted bolt with thread M7 x 0.75 as well as a closed terminal nut with a sprung thrust. The punction box will be provided either with – separately certified – cable entries or integrated cable antries. CONDITIONS OF CERTIFICATION: NO			Page 3 of 3			
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The mantle terminal consists of a slotted bolt with thread M7 x 0.75 as well as a closed terminal nut with a sprung thrust add. The junction box will be provided either with – separately certified – cable entries or integrated cable entries. Further information see Annex. CONDITIONS OF CERTIFICATION: NO	The box, type 8102/21-**, intrinsically safe circuits.	will only be used for non-intrinsically sa	fe circuits, while type 8102/22-** will only be used for			
The junction box will be provided either with – separately certified – cable entries or integrated cable entries. Further information see Annex.	The mantle terminal consis	sts of a slotted bolt with thread M7 x 0.7	75 as well as a closed terminal nut with a sprung thrust			
Further information see Annex. CONDITIONS OF CERTIFICATION: NO	The junction box will t entries.	e provided either with – separat	ely certified – cable entries or integrated cable			
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Annex: Annex IECEx PTB 15.0010 Issue 0.pdf





Applicant:	R. STAHL Schaltgeräte GmbH Am Bahnhof 30 74638 Waldenburg Germany
Electrical Apparatus:	Junction Box type 8102/**-**

Description

The junction box, type 8102/**-**, consists of a plastics enclosure that accommodates four mantle terminals as well as a terminal for the protective conductor.

The box, type 8102/21-**, will only be used for non-intrinsically safe circuits, while type 8102/22-** will only be used for intrinsically safe circuits.

The mantle terminal consists of a slotted bolt with thread M7 x 0.75 as well as a closed terminal nut with a sprung thrust pad.

The junction box will be provided either with – separately certified – cable entries or integrated cable entries.

Nomenclature

8102	/	*	*	-	**
а	/	b	С	-	d

- a) Type series
- b) Number of terminals

2 = 5 terminals

- c) Design
 - 1 = Increased Safety Ex e
 - 2 = Intrinsic Safety Ex i
- d) Additional information without reference to explosion-protection





Technical data	
Rated voltage:	up to 690 V
Rated current:	max 25 A
Rated cross section:	max. 2 x 4 mm ²
	max. 3 x 2.5 mm ²
	min. 0.75 mm ²
Conductor diameter with integrated cable entries:	6.5 mm to 14 mm
Ingress protection:	IP66 according to IEC 60529
Ambient temperature:	The maximal ambient temperature shall adjust to the maximal conductor cross-section, the electri- cal current and the rating of the temperature class.
	-50 °C ≤ T _a ≤ +70 °C
Sonvico tomporaturo:	The maximal service temperature shall adjust to
Service temperature.	the maximal service temperature shall adjust to the maximal ambient temperature and the rating of the temperature class. T6: -50 °C $\leq T_s \leq +80$ °C T5: -50 °C $\leq T_s \leq +90$ °C
Diameter in connection with the gasket	
- and the gashet	

-	
Gasket without removal of the subring	6.5 to 8.5 mm
Gasket after removal of the first inside subring	8.5 to 12.0 mm
Gasket after removal of the second inside subring	12.0 to 14.0 mm





Min. Cross section	Ambient temp. max. +40 °C	Ambient temp. max. +50 °C	Ambient temp. max. +60 °C	Ambient temp. max. +70 °C
0.75 mm²	max. 10 A	max. 10 A	max. 6 A	max. 6 A
1.0 mm ²	max. 12 A	max. 12 A	max. 10 A	max. 6 A
1.5 mm ²	max. 16 A	max. 12 A	max. 10 A	max. 6 A
2.5 mm ²	max. 16 A max. 25 A (T5)	max. 16 A	max. 16 A	max. 10 A
4.0 mm ²	max. 25 A	max. 25 A	max. 16 A max. 25 A (T5)	max. 16 A

Max. Power load in appendance of the cross section and the ambient temperature

Under conditions marked T5 in the table above the temperatures of the terminals may exceed 80°C to a maximum of 90°C. Under this condition the electrical wires must be suitable for this operating temperature. See operating instructions.

It will be the manufacturer's responsibility to specify the characteristic values of the intrinsically safe circuits.

Notes for installation and use

By junction boxes with integrated cable glands only fixed installed cables and conductors are allowed to connect.

The junction box must not be used in areas affected by charge-producing processes, mechanical friction and separation processes, electron emission (e.g. in the vicinity of electrostatic coating equipment), and pneumatically conveyed dust.

The surface resistance of the material used for the enclosure is 10¹³ Ohm. Therefore the note "to be cleaned with moist cloth only" is to be given.

Routine tests

The compliance of the maximal allowed temperature for the respective temperature class under consideration of the maximal ambient temperature must be ensured by the routine test according to IEC 60079-0.