	K	ECEx Certific of Conformi				
	Certification Sch	CTROTECHNICAL CO eme for Explosive Atm f the IECEx Scheme visit www.iecex.co	ospheres			
Certificate No.:	IECEx PTB 09.0049	issue No.:4	Certificate history: Issue No. 4 (2015-2-11)			
Status:	Current		Issue No. 3 (2014-11-13) Issue No. 2 (2012-10-22)			
Date of Issue:	2015-02-11	Page 1 of 4	Issue No. 1 (2011-3-15) Issue No. 0 (2010-1-7)			
Applicant:	R. STAHL Schaltgerät Am Bahnhof 30 74638 Waldenburg Germany	te GmbH				
Electrical Apparatus: Optional accessory:	Control and Distribution	n Box, type 8150/5-****-****-**** an	d 8150/5-****			
Type of Protection:	"d", "e", "ia", "ib", "mb'	", "q", "op is", "op pr", "tb"				
Marking:	Ex d e ia/ib [ia Ga] mb	op pr/op is q IIA, IIB. IIC T6, T5, T4,	T3 Gb			
	Ex tb IIIA, IIIB, IIIC T80	°C, T95 °C, T130 °C Db				
Approved for issue on <i>b</i> Certification Body:	behalf of the IECEx	Dr. Ing. D. Markus				
Position:		Head of Working Group Flame Tra	ansmission Processes			
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: Physikalis	ch-Technische Bundesans Bundesallee 100 38116 Braunschweig Germany	stalt (PTB)				

		x Certificate Conformity				
Certificate No.:	IECEx PTB 09.0049					
Date of Issue:	2015-02-11	Issue No.: 4				
		Page 2 of 4				
Manufacturer:	R. STAHL Schaltgeräte Am Bahnhof 30 74638 Waldenburg Germany	e GmbH				
Additional Manufacturing lo (s):	cation					
found to comply with the IE covered by this certificate, v	C Standard list below and that the r was assessed and found to comply	sentative of production, was assessed and tested and manufacturer's quality system, relating to the Ex products with the IECEx Quality system requirements. This Ex Scheme Rules, IECEx 02 and Operational Documents				
	d any acceptable variations to it spo omply with the following standards:	ecified in the schedule of this certificate and the identified				
IEC 60079-0 : 2011 Edition: 6.0	Explosive atmospheres - Part 0:	General requirements				
IEC 60079-1 : 2014-06 Edition: 7.0	Explosive atmospheres - Part 1:	Equipment protection by flameproof enclosures "d"				
IEC 60079-11 : 2011 Edition: 6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"					
IEC 60079-18 : 2009 Edition: 3	Explosive atmospheres Part 18:	Equipment protection by encapsulation "m"				
IEC 60079-28 : 2006- 08 Edition: 1	Explosive atmospheres - Part 28 using optical radiation	: Protection of equipment and transmission systems				
IEC 60079-31 : 2008 Edition: 1	Explosive atmospheres – Part 31	: Equipment dust ignition protection by enclosure 't'				
IEC 60079-5 : 2007-03 Edition: 3	Explosive atmospheres - Part 5:	Equipment protection by powder filling "q"				
IEC 60079-7 : 2006-07 Edition: 4	Explosive atmospheres - Part 7:	Equipment protection by increased safety "e"				
This Certificate does no	t indicate compliance with electrica expressly included in the S	l safety and performance requirements other than those Standards listed above.				
TEST & ASSESSMENT RE A sample(s) of the equipme <u>Test Report:</u> DE/PTB/ExTR09.0056/04		examination and test requirements as recorded in				
Quality Assessment Report						
DE/BVS/QAR10.0002/02						

	_	x Certificate Conformity					
Certificate No.:	IECEx PTB 09.0049						
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		Page 3 of 4					
	Schedul	e					
EQUIPMENT: Equipment and systems cov	vered by this certificate are as follows:						
The control and distribution box of the type series 8150/5-****_********************************							
	CONDITIONS OF CERTIFICATION: NO						

		c Certificate onformity
Certificate No.:	IECEx PTB 09.0049	
Date of Issue:	2015-02-11	Issue No.: 4
		Page 4 of 4
DETAILS OF CERTIFICAT	E CHANGES (for issues 1 and above)	:
1) Additional Ex com	ponents were added to the list	st of built in component.

Annex: Annex-IECEx PTB 09.0049 Issue 4.pdf





Applicant:	R. STAHL Schaltgeräte GmbH Am Bahnhof 30 74638 Waldenburg Germany		
Electrical Apparatus:	Control and Distribution Box Type 8150/5-****-****-****	and	8150/5-****

Description

The control and distribution box type 8150/5-****-**** and 8150/5-**** consists of enclosures out of steel or stainless steel in the type of protection Increased Safety "e" and protection by enclosures "tb", which may be provided with flanges. Several boxes can be combined with each other.

It is to accommodate switch and control gear, measuring instruments, as well as terminals for intrinsically safe and non-intrinsically safe circuits. Where required it may be fitted with actuator elements and pilot lamps. The box section for intrinsically safe circuits will be identified, e.g. by a light-blue colour.

Connection is by means of explosion-proof cable entries.

All internally and externally fitted elements are tested and certified under separate examination certificates.

Technical data

Rated voltage*	up to 1100 V
Rated current*	max. 630 A
Rated cross section*	max. 300 mm ²

*) depending on the type of terminal and Ex-components used

Ambient temperature	dependent on the gasket
Gasket 1 (D0067)	-60 °C to +135 °C
Gasket 2 (D0068)	-58 °C to +55 °C
Gasket 3 (D0069)	-25 °C to +55 °C

Protection against contact, foreign bodies and water

IP66 acc. to EN 60529

The rated values are maximum values; the actual electrical values depend on the electrical equipment incorporated. Within the scope of these maximum permissible values and with due regard to the standards, the manufacturer specifies the final rated values dependent on the system conditions, mode of operation, utilization category, etc. The characteristic values of the intrinsically safe circuits are to be given by the manufacturer on his own responsibility.

The maximum permissible ambient temperature range of the terminal housing can be limited by the maximum permissible ambient temperature ranges of the separately certified equipment.

The composition of the protection symbol will be based on the types of protection of components actually used.





Nomenclature

General	type cod	e:

	8150	/	*	-	*	*	*	*	-	*	*	*	*	-	*	*	*	-	*	*	*	*
	а	/	b	-		0)		-		(b		-		е		-	f	g	h	i
а	a Control and Distribution Box																					
b			De	esigi	n							5	5	=	Swi	tchg	gear	con	nbin	atior	n Ex	e
С								(0100 to	=	= 100 mm											
												1	200	=	120	0 m	m					
d			Er	nclos	sure	, he	ight [mm	ן:			()100	=	100	mn	n					
												2	to 2200	= 2200 mm								
е			Fr	مامع		do	pth [ı	mm	1.)60		60 r							
C				10100	Suic	, uc	թուր		1.			Ċ	to	_	001							
							8	300	=	= 800 mm												
f			Ma	ateri	al							1		=	1.03	330						
												2			1.43							
			_									3			1.44	-	-	-	/1			
g			Co	batin	g							1			pow							
												2			poli elec							
h			Ve	ersio	n							1			scre		•					
												2			hing				k			
												3	3	=	hing	ge /	scre	W				
i			Ga	aske	et Ma	ateri	al					1			(D0							
												2			(D0							
												3	5	=	(D0	069)					

Serial	type	code	:

	8150 / * a / b		
а	Control and Distri	bution Box	
b	Design	$5-C^{***}$ = customer-spectrum $5-E^{***}$ = modular consecutive (Enclosure consecutive) $5-K^{***}$ = configured consecutive $5-V^{***}$ = serial product 5-V11 5-V37 $5-V^*$	struction ombination) ontrol box





Notes for manufacturing and operation

Equipment of the type of protection intrinsic safety "i" is to be installed in such a way that the distances, creepage distances and clearances between intrinsically safe circuits and non-intrinsically safe circuits comply with the requirements of IEC 60079-11.

When more than one intrinsically safe circuit is used, the rules for interconnection are to be observed.

The Control and Distribution Box with a coating of polyester powder 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.