		Ex Certificate Conformity	•
	IEC Certification System	CEx Scheme visit www.iecex.com	
Certificate No.:	IECEx PTB 06.0025	Page 1 of 4	Certificate history:
Status:	Current	Issue No: 3	Issue 2 (2021-06-14) Issue 1 (2012-03-12)
Date of Issue:	2021-10-05		Issue 0 (2006-03-30)
Applicant:	R. STAHL Schaltgeräte GmbH Am Bahnhof 30 74638 Waldenburg Germany		
Equipment:	Control and Signal Device type 8040/*****-**	* *** * ***_** *** * ***_** *** * *** and 8040/**-V30-**	*_*
Optional accessory:			
Type of Protection:	"db", "eb", "ia", "ib", "mb", "tb"		
Marking:	Ex db eb ia ib mb IIA, IIB, IIC T6, T5 Gb		
	Ex tb IIIC T80 °C, T95 °C Db		
		, ,	
Approved for issue of Certification Body:	n behalf of the IECEx	DrIng. D. Markus	
Position:		Head of Departament "Explosion Protection Technology"	in Energy
Signature: (for printed version)		D. Mar his 05. 10. 21	
Date:		05. 10. 21	
This certificate is not	chedule may only be reproduced in full. transferable and remains the property of the issuing body enticity of this certificate may be verified by visiting www.ie		
Certificate issued			OTC
Physikalisch-Teo Bundesallee 100 38116 Braunsch Germany		Physikalisch-Tech Braunschweig un	nische Bundesanstall d Berlin
		м. м.	

	- 	IECEx Certificate of Conformity
Certificate No .:	IECEx PTB 06.0025	Page 2 of 4
Date of issue:	2021-10-05	Issue No: 3
Manufacturer:	R.STAHL Schaltgeräte Am Bahnhof 30 74638 Waldenburg Germany	GmbH
Additional manufacturing locations:		
IEC Standard list belo found to comply with	ow and that the manufactu	ample(s), representative of production, was assessed and tested and found to comply with the irrer's quality system, relating to the Ex products covered by this certificate, was assessed and requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme as amended
STANDARDS : The equipment and a to comply with the fol		o it specified in the schedule of this certificate and the identified documents, was found
IEC 60079-0:2017 Edition:7.0	Explosive atmospheres	- Part 0: Equipment - General requirements
IEC 60079-1:2014-00 Edition:7.0	6 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 60079-18:2017 Edition:4.1	Explosive atmospheres	- Part 18: Protection by encapsulation "m"
IEC 60079-31:2013 Edition:2	Explosive atmospheres	- Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7:2017 Edition:5.1	Explosive atmospheres	- Part 7: Equipment protection by increased safety "e"
-	This Certificate does other tha	a not indicate compliance with safety and performance requirements n those expressly included in the Standards listed above.
TEST & ASSESSME A sample(s) of the ec		sfully met the examination and test requirements as recorded in:
Test Report:		

DE/PTB/ExTR06.0045/03

Quality Assessment Report:

DE/BVS/QAR10.0002/17



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Description of equipment

The Control and Signal Device, type 8040, consists of one or several plastic enclosures designed to type of protection Increased Safety "e". It can be equipped with flanges.

The enclosures can accommodate control and indicator components as well as terminals for intrinsically safe and non-intrinsically safe circuits. The area designated for intrinsically safe circuits will be marked, e.g. by means of light-blue colour.

Connection is by means of Ex-type cable glands.

All the installed and attached elements will be tested and certified under separate examination certificates.

For more information see annex.

SPECIFIC CONDITIONS OF USE: NO



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above) 1) Standard update to latest IEC standards 2) Combination of enclosures possible 3) Wall thickness adjusted

Annex:

COCA060025-03.pdf



Attachment to Certificate IECEx PTB 06.0025 Issue 3



Applicant:	R. STAHL Schaltgeräte GmbH Am Bahnhof 30 74638 Waldenburg Germany
Electrical Apparatus:	Control and Signal Device type 8040/*****-** *** * ***_** *** * ***-** **** and type 8040/**-V30-***-*

Description

The Control and Signal Device Module, type 8040, consists of one or several plastic enclosures designed to type of protection Increased Safety "e". It can be equipped with flanges.

The enclosures can accommodate control and indicator components as well as terminals for intrinsically safe and non-intrinsically safe circuits. The area designated for intrinsically safe circuits will be marked, e.g. by means of light-blue colour.

Connection is by means of Ex-type cable glands.

All the installed and attached elements will be tested and certified under separate examination certificates.

Nomenclature

General Type Code

8040	1	*	*	*	*	*	-	* *	* *	*	* *	-	* *	* *	*	* *	-	* *	* *	*	* *
а	1	b	С	d	е	f								ç	3						
а	Т	ур	e s	erie	es				7												
b	E	ncl	los	ure	he he	eigh	nt		1 2 3		= 9	7 m	m	(low (high ation	co	ver)		1 ar	nd 2		
С	E	nc	los	ure	siz	ze			2 3 4		= 3	-wa -wa omł	y y	1-wa ation		size	s				
d	С	ab	le (glai 2 3 4 5 6 7 8 9	nd		(n M M M M M	25× /n) 20× 20× 25×	(1.5 (1.5 (1.5 (1.5 (1.5	(Si (Si (Si (Si	de (de [de [de [C: 1 C: 2 C: 1 C: 1	x a x a x – x) x)	withc nd S nd S with custe	ide ide fla	D: nge	1x) , or	וy)			
e Physik		lan		1 2 3 4			M M M	oule eta oule eta	l fla ded I fla	flai nge flai nge	nge (Sie nge (Sie	de [(Sid de (D) de (

Physikalisch-Technische Bundesanstalt (PTB)

Bundesallee 100, 38116 Braunschweig, Germany Postfach 33 45, 38023 Braunschweig, Germany

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Attachment to Certificate

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- = Moulded flange (Side C and D)
- = Metal flange (Side C and D)
- = Metal plate (Side C: with PE connection inside)
- 8 = Metal plate (Side D: with PE connection inside)
- 9 = Metal plate (Side C and D: with PE connection inside)
- f Additional informationX = without (according to type code) Z = with information (according to customer order)

g Further information of built in components and actuators (not ex-relevant).

For list of components see 8040 0 000 030 0.

Information for items "d) ... g)", as defined in the general type code, is documented in the product documentation. The product documentation is available via the serial number and the barcode on the nameplate.

Series Type Code

										÷	
8040	1	*	*	-	V30	1	* * *	1	*		
а	1	b	С	-	d	-	е	-	f		
а	Ту	ре	sei	ries	5						
b	En	clo	sui	e ł	neight		1				= 72 mm (low cover)
							2				= 97 mm (high cover)
С	En	clo	sur	e s	size		1				= 1-way
							2				= 2-way
							3				= 3-way
d	De	sig	n				V30				= Installation switch
е	As	ser	nbl	ур	lan		033				= 2-pole on/off switch
*							035				= change over switch

f Further information of built-in components and actuators (not ex-relevant).

Technical data

Dimensions of the enclosures:

Туре	Length	Width	Depth	
	[mm]	[mm]	[mm]	
8040/11	93	80	72	
8040/12	139	80	72	
8040/13	185	80	72	
8040/22	139	80	95	
8040/23	185	80	95	





Electrical data

Rated voltage*:	Max. 690 V
Rated current*:	Max. 6 A16 A
Power input for indicator lights:	Max. 1.5 W
Rated cross section, installations:	Max. 6 mm ²
Rated cross section, terminal block / connection terminals:	Max. 4 mm²

* depending on type of terminal and Ex components used.

Ambient temperature range

-60 °C to +74 °C

Temperature class acc. to the max. ambient temperature

Type 8040/11

Maximum	installed config	uration				
Current [A]	8082-80	082-8082	8082-80	10-8082	8008 (2-pole)
	T6 / T80 °C	T5 / T95 °C	T6 / T80 °C	T5 / T95 °C	T6 / T80 °C	T5 / T95 °C
2	73 °C	73 °C	62 °C	71 °C	-	L
4	72 °C	72 °C	60 °C	71 °C	74 °C	74 °C
6	68 °C	71 °C	59 °C	70 °C	-	-
10	1	-	-	-	70 °C	71 °C
16			*		55 °C	60 °C

Type 8040/12

Maxim	um installe	ed configu	ration			1)	2 8		×	
Cur- rent [A]	8082-80 8082-80	82-8082 82-8082		10-8082 10-8082	8008 (2-pole)	840)5/6	8082-808 80	
	T6 / T80 °C	T5 / T95 °C	Т6 / Т80 °С	T5 / T95 °C	т6 / т80 °С	T5 / T95 °C	T6 / T80 °C	T5 / T95 °C	T6 / T80 °C	T5 / T95 °C
2	74 °C	74 °C	61 °C	70 °C	-	- *	-	-	73 °C	73 °C
4	71 °C	71 °C	58 °C	70 °C	74 °C	74 °C	74 °C	74 °C	71 °C	71 °C
6	64 °C	68 °C	56 °C	66 °C	-		ş - *	-	65 °C	69 °C
10	-	-			70 °C	71 °C	73 °C	73 °C		-
15	-	-	۵ ب	-	-	-	64 °C	68 °C	-	-
16					59 °C	62 °C				×



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Type 8040/13

Maximum	installed config	uration				
Current [A]	8082-80 8082-80 8082-80	82-8082	8082-80 8082-80 8082-80	10-8082	8082-8082- 80828082-	
	T6 / T80 °C	T5 / T95 °C	T6 / T80 °C	T5 / T95 °C	T6 / T80 °C	T5 / T95 °C
2	74 °C	74 °C	60 °C	69 °C	74 °C	74 °C
4	70 °C	70 °C	57 °C	67 °C	71 °C	71 °C
6	61 °C	65 °C	54 °C	63 °C	64 °C	66 °C

Maximum inst	alled configuration			
Current [A]		10-8082 2-pole)	840 8008 (2	
	T6 / T80 °C	T5 / T95 °C	T6 / T80 °C	T5 / T95 °C
2/4	62 °C	72 °C	-	-
4 / 10	54 °C	62 °C	-	-
6 / 16	44 °C	45 °C		
4/4	-	-	74 °C	74 °C
10 / 10	-	-	68 °C	70 °C
15 / 15	-	-	52 °C	57 °C

Type 8040/23

Maximum insta	lled configuration					
Current [A] 8405/6 8008 (3-pole+Aux)						
	T6 / T80 °C	T5 / T95 °C				
4/4	74 °C	74 °C				
10 / 10	65 °C	67 °C				
15 / 16	41 °C	48 °C				

Note: Rated current of auxiliary contact is ≤ 1 A.

For further information see test protocol 11568.

Ingress protection according to IEC 60079-0, IEC 60079-7 and IEC 60079-31: without flanges IP66 with flanges IP65

for enclosure combination IP64 with silicon gasket D0130-01 or D0308-00





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 enclosure can be limited by the maximum permissible service temperature ranges of the separately certified components.

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

The arrangement of the Ex-marking will be based on the level of protection of components used.

Notes for manufacturing and operation:

Components attached or installed have to be of a technical standard that complies with the specifications on the cover sheet. They must be suited for the operating conditions and have a separate examination certificate. The special conditions specified for the components must be complied with and may have to be included in the type test. This also applies to components already specified in the technical description.

In order to ensure the ingress protection IP, the cover of the empty enclosure, the flange enclosure, the sealing frame and other Ex-components must be properly installed and with the appropriate torque.

The fastening force of the connecting piece between two enclosures must be properly fastened with the correct torque and must not be influenced by other forces (e.g. wall mounting).

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.

When components are installed into the empty enclosure, clearance and creepage distances specified in the standard IEC 60079-7 and IEC 60079-11 shall duly be complied with.

The enclosure 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.