


Translation

(1) EC-Type Examination Certificate

- (2) Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC
- (3) No. of EC-Type Examination Certificate: **BVS 13 ATEX E 015 U**
- (4) Component: **Empty enclosure type S-TB * * * * * SL * * * ***
- (5) Manufacturer: **Cooper Crouse-Hinds GmbH**
- (6) Address: **Neuer Weg-Nord 49, 69412 Eberbach, Germany**
- (7) The design and construction of this component and any acceptable variation thereto are specified in the appendix to this type examination certificate.
- (8) The certification body of DEKRA EXAM GmbH, notified body no. 0158 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament and the Council of 23 March 1994, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive.
The examination and test results are recorded in the test and assessment report BVS PP 13.2102 EG.
- (9) The Essential Health and Safety Requirements are assured by compliance with:
- EN 60079-0:2012 General requirements**
EN 60079-7:2007 Increased safety "e"
EN 60079-31:2009 Protection by enclosures "t"
- (10) The sign "U" placed after the certificate number indicates that the certificate must not be mistaken for a certificate for equipment or a protective system. This certificate may only be used as the basis for the certification of equipment or a protective system.
- (11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified component in accordance to Directive 94/9/EC.
Further requirements of the Directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.
- (12) The marking of the component shall include the following:

 **II 2G Ex e IIC Gb**
II 2D Ex tb IIIC Db

DEKRA EXAM GmbH
Bochum, dated 23rd May 2013

Signed: Simanski

Certification body

Signed: Dr. Wittler

Special services unit

- (13) Appendix to
- (14) **EC-Type Examination Certificate**
BVS 13 ATEX E 015 U
- (15) 15.1 Subject and type

Empty enclosure type S-TB * * * * * SL * * * * *

Asterisks Description

1...2	Enclosure material
	S1 316L stainless steel – polished
	S2 304 stainless steel – polished
	S3 316L stainless steel – natural
	S5 304 stainless steel – natural
3...4	Height of the enclosure noted in cm ¹⁾
	Range: 12 ... 60
5...6	Width of the enclosure noted in cm ¹⁾
	Range: 12 ... 60
7...8	Depth of the enclosure noted in cm ¹⁾
	Range: 7 ... 22
9	Gland plate
	0 without
	1 one side
	2 two sides
	3 three sides
	4 all sides
10	Type of gasket ¹⁾
	1 Standard
	2 Flat gasket 1
	4 Combination of Standard and Flat gasket 1
11	Type plate fastening
	1 glued
	2 riveted
12...15	Miscellaneous variants without influences on explosion protection

¹⁾ Please see "Parameters" for detailed information about the possible combinations of height, width, length and type of gasket.

15.2 Description

The empty enclosure type S-TB * * * * * SL * * * * * is designed in type of protection Increased Safety 'e' for use in areas endangered by gas atmospheres and in type of protection Protection by Enclosure 't' for use in areas endangered by dust atmospheres.

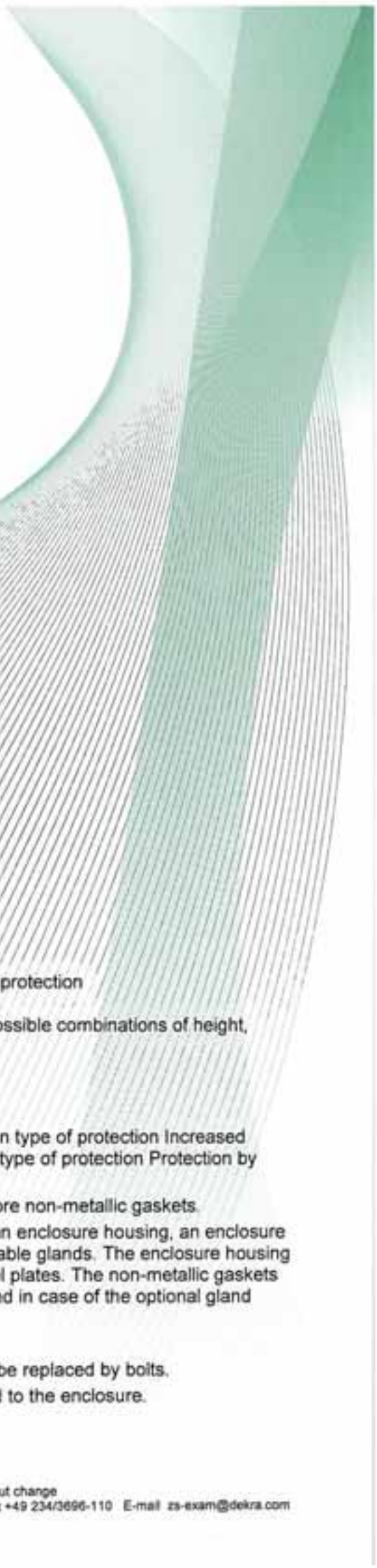
The enclosure is completely made of stainless steel with one or more non-metallic gaskets.

Parts of the empty enclosure type S-TB * * * * * SL * * * * * are an enclosure housing, an enclosure lid and optionally of one or more gland plates for the mounting of cable glands. The enclosure housing and the enclosure lid are made of folded and welded stainless steel plates. The non-metallic gaskets are placed between the enclosure housing and the enclosure lid and in case of the optional gland plates between the enclosure housing and each gland plate.

The lid is mounted to the housing by use of screws.

The rail for mounting terminals inside the enclosure can optionally be replaced by bolts.

Optionally a separately certified breathing element can be mounted to the enclosure.



15.3 Parameters

Ingress protection

IP66

List of possible enclosure variants depending on enclosure size and type of gasket

Size	Size	Size	Size
12-12-07	17-12-09	27-12-09	38-38-22
12-12-08	18-12-07	30-26-10	40-60-12
12-12-09	19-15-09	30-30-20	48-48-20
14-12-07	19-19-10	34-34-15	60-40-22
15-12-08	22-12-09	34-55-15	
15-15-09	25-25-12	37-33-10	
16-38-12	25-40-13	38-30-22	

Permissible temperature range for the different non-metallic materials

Material	Operating temperature range
Standard	-40 °C ... 120 °C
Flat gasket 1	-40 °C ... 120 °C
Plastic washer ⁴	-40 °C ... 65 °C

⁴ The plastic washer is only relevant for the enclosure variant with sealed earthing stud.

(16) Test and assessment report

BVS PP 13.2102 EG as of 23rd May 2013

(17) Installation instructions

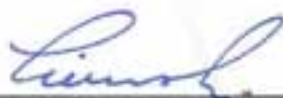
The operation temperatures of the sealing materials have to be taken into account for the certification of the complete equipment.

The creepage and clearance distances in the empty enclosure type S-TB * * * * * SL * * * * * have to be taken into account for the complete electrical equipment.

If the earthing facility is carried out with a M6 stud the maximum connectable cross section is 50 mm². If the earthing facility is carried out with a M10 stud the maximum connectable cross section is 120 mm². The maximum cross section of the earthing stud has to be taken into account for the maximum acceptable cross section of the supply lines for the complete electrical equipment.

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

DEKRA EXAM GmbH
44809 Bochum, 23rd May 2013
BVS-Kir/Ma A20111024



Certification body



Special services unit