

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin



(1) EC-TYPE-EXAMINATION CERTIFICATE (Translation)

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 94/9/EC**



(3) EC-type-examination Certificate Number:

PTB 02 ATEX 1021 U

(4) Component: Empty enclosure, type ExTRA

(5) Manufacturer: Cooper Crouse-Hinds (UK) Ltd, Enclosure Division

(6) Address: Dorset Road, Sheerness, Kent ME 12 1LP, UK

(7) This component and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 9 of the Council Directive 94/9/EC 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 confidential report PTB Ex 02-12044.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50014:1997 + A1 + A2

EN 50019:2000

(10) The sign "U" placed behind the certificate number indicates that this certificate should not be confounded with certificates issued for equipment or protective systems. This Component Certificate only serves as a basis for the issuing of certificates for equipment or protective systems.

(11) This EC-type-examination Certificate relates only to the design, examination and tests of the specified component in accordance to the 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 2 G EEx e II**

Zertifizierungsstelle Explosionschutz

Braunschweig, April 08, 2002

By order


Dr.-Ing. U. Klausmeyer
Regierungsdirektor



sheet 1/2

EC-type-examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

(13)

SCHEDULE

(14)

EC-TYPE-EXAMINATION CERTIFICATE PTB 02 ATEX 1021 U

(15) Description of component

The empty enclosure, type ExTRA....., consists of a stainless-steel housing designed to type of enclosure Increased Safety "e", which may be provided with flanges if required.

Technical data

Sizes	Width	Length	Depth
smallest	300 mm	200 mm	150 mm
largest	1000 mm	800 mm	300 mm

Ambient temperatures:

subject to the sealing used
-40 °C to +55 °C with polymer CR
-55 °C to +55 °C with silicon

Touch guard, protection against ingress of foreign matter and water:

IP 54 in accordance with EN 60529:1991 as a minimum

(16) Test report PTB Ex 02-12044

(17) Special conditions for safe use



none

(18) Essential health and safety requirements

The tests and favourable results these have produced show that the empty enclosure, type ExTRA, complies with the requirements set forth in Directive 94/9/EC as well as with the standards specified on the cover sheet.

Zertifizierungsstelle für Explosionschutz

By order:



Dr.-Ing. U. Klausmeyer
Regierungsdirektor

Braunschweig, April 08, 2002

sheet 2/2

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1st SUPPLEMENT
according to Directive 94/9/EC Annex III.6
to EC-TYPE-EXAMINATION CERTIFICATE PTB 02 ATEX 1021 U
(Translation)

Equipment: Empty enclosure, type ExTRA

Marking:  II 2 G EEx e II

Manufacturer: Cooper Crouse-Hinds (UK) Ltd, Enclosure Division

Address: Dorset Road, Sheerness, Kent ME 12 1LP, UK

Description of supplements and modifications

Standard applied in addition: EN 50281-1-1:1998.

The empty enclosure, type ExTRA, is expanded to additionally include the type series Ex-Cell "I" XCL

The empty enclosure, type ExTRA, is expanded to additionally include the enclosure size 1200 mm x 1200 mm x 300 mm.

The flange plates may be fitted to the empty enclosures by means of a high torque fastener system.

Material PUR may be used as sealing material.

The empty enclosures using PUR sealing material may also be employed in areas in which a potentially explosive atmosphere as a mixture of dust and air can occasionally form.

The marking, therefore, changes to read:

 II 2 G/D EEx e II IP 66

Technical data

Sizes, type ExTRA		Width	Length	Depth
	Smallest	300 mm	200 mm	150 mm
	Largest	1200 mm	1200 mm	300 mm
Sizes, type Ex-Cell "I" XCL		Width	Length	Depth
	Smallest	228 mm	152 mm	127 mm
	Largest	1000 mm	800 mm	300 mm

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1st SUPPLEMENT TO EC-TYPE-EXAMINATION CERTIFICATE PTB 02 ATEX 1021 U

Ambient temperature

subject to sealing used

-40 °C to +55 °C with polymer CR sealing

-55 °C to +55 °C with silicone sealing

-20 °C to +40 °C with PUR sealing

Protection against contact, foreign bodies and water:

IP66 in compliance with EN 60529 for PUR sealing


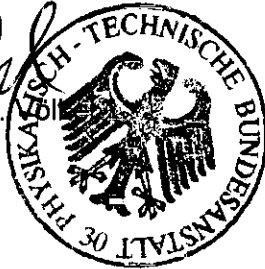
IP54 in compliance with EN 60529 for silicone and polymer CR sealing

Test report: PTB Ex 04-14137

Zertifizierungsstelle Explosionsschutz

Braunschweig, June 08, 2004

By order:


Dipl.-Phys. U. 

Sheet 2/2

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Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin



Telefax (Bitte sofort weiterleiten!)

Safety first

An: Cooper Crouse-Hinds 69412 Eberbach	Von: Physik.-Technische Bundesanstalt Lab. 3.41 'Druckfeste Kapselung' D-38023 Braunschweig Dr. Schumann Tel. 592-3515
Att.: Herr Huter Faxnr.: 06271/81-521	Faxnr.: 0531/592-3415

Bitte benutzen Sie auch die Email-Adresse im Internet: Monika.Schumann@ptb.de

Anzahl der Blätter (incl. Deckblatt): 1
Rückfragen bei fehlerhafter Übermittlung: Tel.: 0531/592-3515

Leergehäuse Typ ExTRA und Ex-Cell-„I“ XCL , PTB 02 ATEX 1021 U
Leergehäuse Typ GHG 724 ... PTB 04 ATEX 1048 U
Klemmenkasten Typ ExTRA und Ex-Cell-„I“ XCL , PTB 02 ATEX 1014
Klemmenkasten Typ GHG 724 ... PTB 04 ATEX 1049

Sehr geehrter Herr Huter,

es bestehen keine sicherheitstechnischen Bedenken,

bei den oben genannten Leergehäusen und Klemmenkästen die Dichtung PU Schaum Typ Hyperlast 7852248 im Umgebungstemperaturbereich - 20 °C bis + 60 °C einzusetzen.

Wir bitten Sie, diese Änderung bei einer zukünftigen Ergänzung mit aufzunehmen

Mit freundlichen Grüßen

Datum: 15.07.2004

Im Auftrag

Dr. Schumann
Regierungsrätin

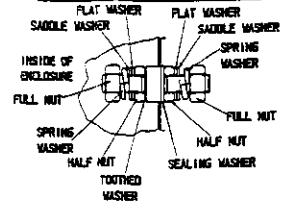
GENERAL NOTES

ENCLOSURE TO HAVE QUARTER TURN LOCKS AS STANDARD

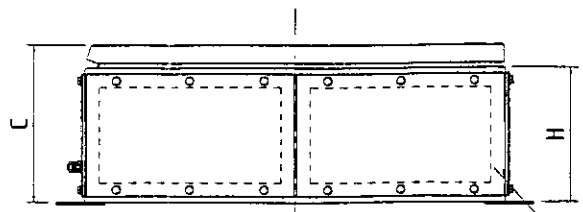
LID GASKETS TO BE POLYURETHANE FOAM IN PLACE
(OPTIONAL 5.0mm CLOSED CELL EPDM OR NEOPRENE SPONGE)

OPTIONAL GLAND PLATES TO BE 2.0mm THICK OR GREATER
GLAND PLATE GASKETS TO BE 3.5mm THICK
CLOSED CELL NEOPRENE SPONGE OR EPDM

TYPICAL EARTH STUD ASSEMBLY



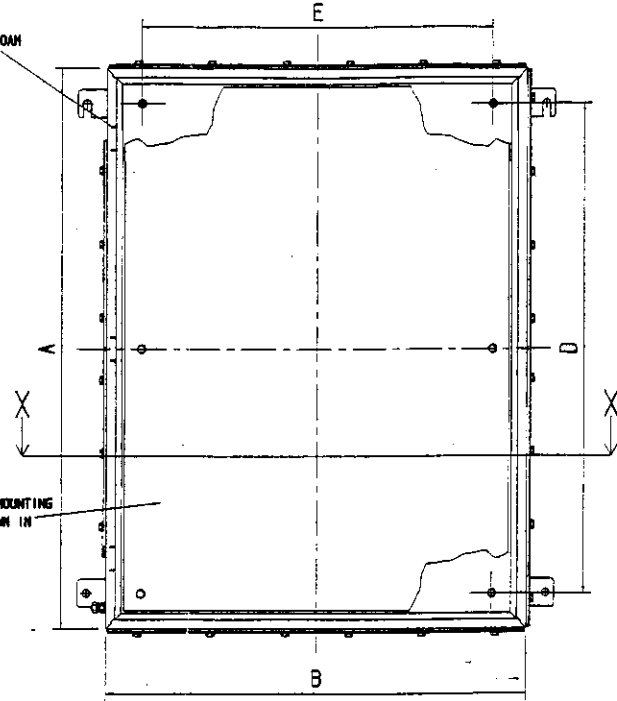
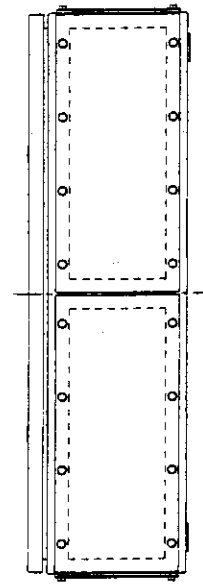
SIZE	A	B	C	D	E	H	J	LOCKS	HINGES
MIN. 221513	228.0	152.0	127.0	200.0	100.0	122.7	-	1	2
ANY INTERMEDIATE SIZES ARE INCLUDED WITHIN THIS CERTIFICATION PROVIDING THE CRITICAL DESIGN CRITERIA IS MAINTAINED									
MAX. 1008030	1000.0	800.0	300.0	900.0	700.0	272.7	650.0	2	4



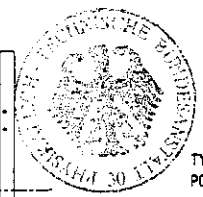
OPTIONAL GLAND PLATE SHOWN FOR MAXIMUM GLANDING AREAS

PTB Ex 04-14137

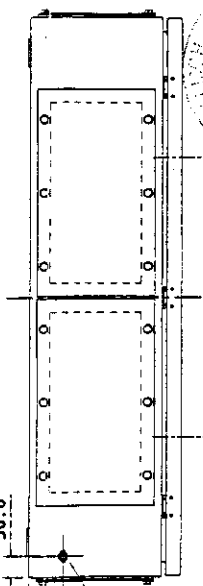
HINGES SCREWED IN PLACE & SEALED WITH CLOSED CELL SILICONE FOAM



OPTIONAL MOUNTING PLATE SHOWN IN POSITION

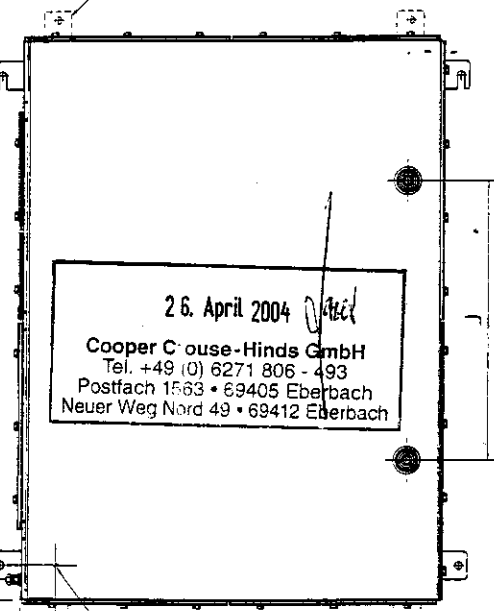


TYPICAL POSITION



TYPICAL POSITION OF INTERNAL/EXTERNAL BRASS EARTH STUD ASSEMBLY SEE DETAIL OF ASSEMBLY

ALTERNATIVE POSITION

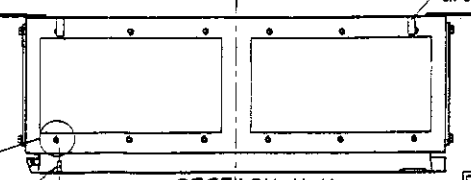


TYPICAL POSITION OF M6 x 16.0mm INTERNAL C/D EARTH STUD ON INSIDE FACE OF LID

26. April 2004
Cooper Crouse-Hinds GmbH
Tel. +49 (0) 6271 806 - 493
Postfach 1563 • 69405 Eberbach
Neuer Weg Nord 49 • 69412 Eberbach

MATERIAL: BODY: 1.2mm (MIN.) 304 OR 316L STAINLESS STEEL
(OR 1.2mm MIN. SHEET STEEL)
LIDS: 1.2mm (MIN.) 304 OR 316L STAINLESS STEEL
(OR 1.2mm MIN. SHEET STEEL)
FINISH: ELECTROCHEMICAL POLISH STAINLESS STEEL
PAINTED (SHEET STEEL)

Ø 9.0mm x 25.0mm PILLARS FOR RAIL/PLATE MOUNTING OR SIMILAR



SECTION X-X

ALTERNATIVE M6 ANVELS FOR GLAND PLATE FIXINGS



M6 X 16 LG. LID EARTHSTUD

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② TOLERANCES TO ISO 8015

①

① SEE D.I.C.C. No. 3951 22/03/04 A.J.

MODIFICATIONS CHECKED

RESPONSIBLE DATE NAME TITLE

SCALE: DRAWN 22/03/04 T.J.S.

SUPERSEDES: CHECKED 25/03/04 A.J.

ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE STATED

COOPER Crouse-Hinds

725255 ①

DRAWING NO. SHEET: 1 OF 1 SHEETS

Ex-cell ENCLOSURE RANGE
COMPOSITE APPROVAL GENERAL
ASSEMBLY

PRODUCT FILE: UK Ex

DIRECTION REMARK TO DIN 34 MUST BE OBSERVED