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, Sheemess, 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:

Ex II 2 G EEx e II

Zertifizierungsstelle Explosionsschutz
By order:

Dr.-Ing. U. Klausmeyer
Regierungsdirektor

Braunschweig, April 08, 2002

(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 Explosionsschutz
By order:

Dr.-Ing. U. Klausmeyer
Regierungsdirektor

Braunschweig, April 08, 2002

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

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: ⟨Ex⟩ **II 2 G EEx e II**

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

Address: Dorset Road, Sheemess, 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:

⟨Ex⟩ **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
By order:

Dipl.-Phys. U. Völkel

Braunschweig, June 08, 2004

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

2nd 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 ....., Ex-Cell- "I" XCL .....

Marking: Ⓔx **II 2 G/D EEx e II IP 66**

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

Address: Dorset Road, Sheemess, Kent ME 12 1LP, Great Britain

Description of supplements and modifications

The empty enclosure, types ExTRA ..... and Ex-Cell-„I" XCL ..... , is complemented in the following respects:

1. Re-inspection on the basis of Standards EN 60079-0, EN 60079-7, EN 61241-0 and EN 61241-1.

The marking will thus change to:

Ⓔx II 2 G Ex e II

Ⓔx II 2 D Ex tD A21 IP66

2. The empty enclosure will also include types Ex-Cell-„T" XCL ..... and Ex-Cell-"C" XCL .....

3. The empty enclosure is complemented to include the following housing sizes:

	Width	Length	Depth
Ex-Cell (EXTRA)- -„-"XCL 14010040	1,400mm	1,000mm	400mm
Ex-Cell (EXTRA)- -„-"XCL 16012035	1,600mm	1,200mm	350mm

4. Fermapor may be used as an alternative sealant.

5. The empty enclosure can also be supplied by

Cooper Crouse Hinds GmbH
Neuer Weg-Nord 49
69412 Eberbach, Germany

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2nd SUPPLEMENT TO EC-TYPE-EXAMINATION CERTIFICATE PTB 02 ATEX 1021 U

Technical data

Sizes

	Width	Length	Depth
Smallest	228.6 mm	152.4 mm	127 mm
Largest	1,600 mm	1,200 mm	350 mm

Ambient temperature

depending on gasket used
-48 °C to +80 °C with polymer CR gasket
-55 °C to +55 °C with silicone gasket
-40 °C to +55 °C with Fermapor gasket
-20 °C to +40 °C with PUR gasket

Shock protection and protection against ingress of solid foreign bodies and water:

IP66 / IP65 acc. to EN 60529 when using a PUR gasket
IP54 acc. to EN 60529 when using a silicone, polymer CR and Fermapor gasket

Applied standards

EN 60079-0:2006 **EN 60079-7:2007** **EN 61241-0:2006** **EN 61241-1:2004**

Test report: PTB Ex 08-18263

Zertifizierungsstelle Explosionsschutz
By order:

Braunschweig, October, 9, 2008

Dr.-Ing. M. Thedens
Oberregierungsrat