



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX UL 09.0021X** issue No.: **3** Certificate history:
Issue No. 3 (2013-10-12)
Issue No. 2 (2013-3-11)
Issue No. 1 (2013-1-31)
Issue No. 0 (2009-8-6)

Status: **Current**

Date of Issue: **2013-10-12** Page 1 of 4

Applicant: **Adalet/Scott Fetzer Company**
4801 W. 150th Street
Cleveland, OH 44135
United States of America

Electrical Apparatus: **High Voltage Junction Box**
Optional accessory:

Type of Protection: **Dust "tb" and Increased Safety "e"**

Marking: **Ex e II T5 Gb**
Ex tb IIIC T90°C Db IP66

Approved for issue on behalf of the IECEx Certification Body: **Paul T. Kelly**

Position: **Principal Engineer, Global Hazardous Locations**

Signature:
(for printed version)

Date: **2013-10-12**

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

UL LLC
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America





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Manufacturer: **Adalet/Scott Fetzer Company**
4801 W. 150th Street
Cleveland, OH 44135
United States of America

Additional Manufacturing location
(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-31 : 2008 Edition: 1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
IEC 60079-7 : 2006-07 Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

US/UL/ExTR09.0024/00

US/UL/ExTR09.0024/01

US/UL/ExTR09.0024/02

US/UL/ExTR09.0024/03

Quality Assessment Report:

US/UL/QAR08.0003/04



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Type HV Series of stainless steel enclosures are for high power use. These enclosures are manufactured of powder coated cold rolled steel, brushed finish stainless steel 304 and brushed finish steel 316L respectively and are available in various sizes and depths. The boxes consist of a cover, hinge assembly, body, grounding lug, gland plates, gaskets and two types of porcelain stand-offs used for terminal connections. The porcelain stand-offs may be provided with a 1x1 terminal construction or a 2x2 terminal construction. The enclosures may be mounted in a vertical or horizontal position and can be fitted with up to eight gland plates.

See Annex for additional details.

CONDITIONS OF CERTIFICATION: YES as shown below:

- These enclosures shall be installed to flat rigid surface using the mounting means provided.
- All unused device openings must be fitted with a certified close up plug equivalent of the apparatus and must be marked with an IP66 rating.
- This approval applies to equipment without cable/conduit entries. When installing cable or conduit entries, the cable/conduit fitting must be certified as flameproof "d" or increased safety "e", dust protection type "tb" and have a minimum IP66 rating equal to the marking on the enclosure.
- Conductors shall be chosen that have a rating above the anticipated maximum ambient temperature. The operating temperature of conductors should be controlled at or below the conductor rating by coordinating conductor size, number of associated conductors, and ampacity for the particular conductor rating and ambient temperature.
- After installation, all creepage distances and clearances shall be according to Table 1 in IEC 60079-7, 4th Edition.
- To minimize the risk of electrostatic charge, provisions shall be made for adequate grounding and equipment shall be installed in such a manner so that accidental discharge shall not occur.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 1: Added alternate terminal construction for the HV Series of enclosures.

Issue 2: Correction to max rating, and type of protection, "tD" to "tb".

Issue 3: Change in temperature code and maximum voltage.

Annex to IECEx UL 09.0021X Issue 3

Nomenclature for Type HV:

HV4	-241206	06	-A
I	II	III	IV

I – Enclosure Material

HV4 – Powder Coated Cold Rolled/Hot Rolled Steel

HV4X – Brushed Finish Stainless Steel 304

HV4X6 – Brushed Finish Stainless Steel 316L

II – Enclosure Sizes

Size (L x W) Dimensions in mm

-1616 406 x 406

-2012 508 x 305

-2014 508 x 356

-2016 508 x 406

-2020 508 x 508

-2412 610 x 305

-2416 610 x 406

-2420 610 x 508

-2424 610 x 610

-2518 635 x 457

-3016 762 x 406

-3020 762 x 508

-3022 762 x 559

-3024 762 x 610

-3624 914 x 610

-3625 914 x 635

-6036 1524 x 914

III – Enclosure Depth

XX – Maximum 279 mm

IV – Gland Plate Location(s)*

A – Gland plate on topside

B – Gland plate on bottom side

C – Gland plate on left side

D – Gland plate on right side

***Omit dashes when multiple gland plates are installed**