IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

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

Certificate No.: **IECEx UL 08.0012X**

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Certificate history:

Issue 5 (2015-02-25)
Issue 4 (2015-01-31)
Issue 3 (2014-07-11)
Issue 2 (2012-06-29)
Issue 1 (2010-10-15)
Issue 0 (2009-06-12)

Status: **Current**

Issue No: 6

Date of Issue: 2021-11-04

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

Equipment: **Terminal Enclosures**

Optional accessory:

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

Marking: Ex e IIC T6..T4 Gb for VC, VH, VCND and VHND series
Ex tb III C T120°C Db IP66 for VC and VH series

-50°C to +40°C for T6

-50°C to +55°C for T5

-50°C to +60°C for T4

Approved for issue on behalf of the IECEx Certification Body: **Katy A. Holdredge**

Position: **Senior Staff Engineer**

Signature:
(for printed version)

Date:
(for printed version)

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 www.iecex.com or use of this QR Code.

Certificate issued by:

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

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

Manufacturing locations: **Adalet/Scott Fetzer Co.**
201 Cunard Street
Cardington, OH 43315
United States of America

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 equipment 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 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-31:2008 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
Edition:1

IEC 60079-7:2006 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:4

This Certificate **does not** indicate compliance with 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 Reports:

US/UL/ExTR08.0014/00 US/UL/ExTR08.0014/01 US/UL/ExTR08.0014/02
US/UL/ExTR08.0014/03 US/UL/ExTR08.0014/04 US/UL/ExTR08.0014/05

Quality Assessment Reports:

US/UL/QAR08.0003/10 US/UL/QAR16.0016/04

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

These devices are increased safety and dust protected terminal enclosures constructed out of brushed finish 316L stainless steel and are available in various sizes and depths. The enclosures consist of a cover, hinge assembly, body, external and internal grounding lugs, gland plates, gaskets and welded mounting lugs. The enclosure may be mounted in a vertical or horizontal position.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- This certificate applies to equipment without cable/conduit entries. When installing cable or conduit entries, the cable/conduit entries must be certified as increased safety, for protection type 'tb', and have a minimum IP66 rating for the VC and VH enclosures. When installing cable or conduit entries, the cable/conduit entries must be certified as increased safety have a minimum IP66 rating for the VCND and VHND enclosures. All unused conduit openings must be fitted with a certified close up plug equivalent of the apparatus and must be marked with an IP66 rating.
- The number of conductors entering the enclosure plus the number of internal connections (bridges and ground conductors are not counted) shall not exceed that of the Enclosure Size Terminal Content sheets.
- After installation, all creepage distances and clearances shall be according to Table 1 in IEC 60079-7, Fourth
- All conductors/cables shall be copper and shall be suitable for: 80°C when -50°C≤Ta≤+40°C, 95°C when -50°C≤Ta≤+55°C, 100°C when -50°C≤Ta≤+60°C.
- Each terminal block shall not be specified to accommodate more than one individual conductor in a clamping point unless specifically designed and assessed for doing so.
- For screwless connections intended for Class 5 or Class 6 fine stranded conductors according to IEC 60228, the fine stranded wire shall be equipped with a ferrule or the termination shall have a method to open the clamping mechanism so that the conductors are not damaged during installation of the conductor.
- The end user shall provide bonding means as necessary.
- See enclosure outline for conduit/cable layout information, minimum wire bending requirements, and minimum electrical clearance.
- 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.
- When two wires are used, they shall be of the same type and size.
- All unused terminals shall be tightened.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Issue 1: Addition of model.

Issue 2: Nomenclature was updated to increase the enclosure depth. New latch construction was evaluated.

Issue 3: Updating to the latest standards and the addition of new terminal blocks.

Issue 4: The addition of the VCND and VHND models.

Issue 5: Updating DS589TB, DS869ND and DS869for the populated VC/VH enclosures to include new terminal block options.

Issue 6: Adds Manufacturer Adalet/Scott Fetzer Co., Cardington, OH (US/UL/QAR16.0016/04). No ExTR revision for this update.

Annex:

Annex to IECEx UL 08.0012X Issue 6.pdf

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Certificate No.: IECEx UL 08.0012X

Issue No.: 6

TYPE DESIGNATION

Nomenclature:

VC4X6	09	06	05	H	A
I	II	III	IV	V	VI

I. Basic Enclosure Designation VC4X – Brushed Finish Stainless Steel 304

VC4X6 – Brushed Finish Stainless Steel 316L

VCND4- Cold Rolled/Hot Rolled Carbon Steel

VCND4X – Brushed Finish Stainless Steel 304

VCND4X6 – Brushed Finish Stainless Steel 316L

II. Enclosure Length

XX – Any two-digit number (30 maximum)

III. Enclosure Width

XX – Any two-digit number (30 maximum)

IV. Enclosure Depth

XX – Any two-digit number (16 maximum)

V. Mounting Feet

H – Horizontal

V - Vertical

VI. Gland Plate Location
A – Gland Plate on Top Side
B – Gland Plate on Bottom Side
C – Gland Plate on Left Side
D – Gland Plate on Right Side

VH4X6	0	10	08	A
I	II	III	IV	V

I. Basic Enclosure DesignationVH4X – Brushed Finish Stainless Steel 304

VH4X6 – Brushed Finish Stainless Steel 316L

VHND4- Cold Rolled/Hot Rolled Carbon Steel

VHND4X – Brushed Finish Stainless Steel 304

VHND4X6 – Brushed Finish Stainless Steel 316L

II. Enclosure Length

XX – Any two-digit number (30 maximum)

III. Enclosure Width

XX – Any two-digit number (30 maximum)

IV. Enclosure Depth

XX – Any two-digit number (16 maximum)

V. Gland Plate Location

A – Gland Plate on Top Side

B – Gland Plate on Bottom Side

C – Gland Plate on Left Side

D – Gland Plate on Right Side

PARAMETERS RELATING TO THE SAFETY

1100 V, 500 Amps max (dependent on the terminal block installed)

MARKING

Marking has to be readable and indelible; it has to include the following indications:

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