



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 09.0016X issue No.:2
Status: **Current**
Date of Issue: **2015-02-25** Page 1 of 4

Certificate history:
Issue No. 2 (2015-2-25)
Issue No. 1 (2013-7-24)
Issue No. 0 (2009-7-13)

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

Electrical Apparatus: **Terminal Enclosures**
Optional accessory:

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

Marking: Ex e II T6...T4 Gb
Ex tb IIIC T120°C Db IP66

-50°C to +70°C for T4
-50°C to +60°C for T4
-50°C to +55°C for T5
-50°C to +40°C for T6

*Approved for issue on behalf of the IECEx
Certification Body:*

Paul T. Kelly

Position:

Principal Engineer, Global Hazardous Locations

*Signature:
(for printed version)*

Date:

2015-02-25

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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Page 2 of 4

Manufacturer: **Adalet, A Scott Fetzer Co.**
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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/ExTR09.0018/00](#)

[US/UL/ExTR09.0018/01](#)

[US/UL/ExTR09.0018/02](#)

Quality Assessment Report:

[US/UL/QAR08.0003/05](#)



IECEx Certificate of Conformity

Certificate No.: IECEx UL 09.0016X

Date of Issue: **2015-02-25**

Issue No.: **2**

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Type TN series of enclosures are junction boxes provided with increased safety terminal blocks. 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 and gaskets. The enclosures may be mounted in a vertical or horizontal position and can be fitted with up to eight gland plates.

Please see Annex for more details.

CONDITIONS OF CERTIFICATION: YES as shown below:

Please see Annex for Conditions of Certification.



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Page 4 of 4

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

Issue 1: Update to the latest standards, updated allowable enclosure sizes, addition of terminal blocks and updated to "tb" dust protection.

Issue 2: Updating DS589TB for the populated TN enclosures.

Annex to IECEx UL 09.0016X Issue 2

Nomenclature for Type TN:

<u>TN4</u>	<u>-18</u>	<u>18</u>	<u>08</u>	<u>-A</u>	<u>R0010</u>
I	II	III	IV	V	VI

I – Enclosure Material

TN4 – Powder Coated Cold Rolled/Hot Rolled Steel
TN4X – Brushed Finish Stainless Steel 304
TN4X6 – Brushed Finish Stainless Steel 316L

II – Enclosure Length

XX – Any two-digit number that indicates the outside box length (in inches) (Max. 60 in. (1530mm))

III – Enclosure Width

XX – Any two-digit number that indicates the outside box width (in inches) (max. 36 in. (914 mm))

IV – Enclosure Depth

XX – Any two-digit number that indicates the outside box depth (in inches) (max. 36 in. (914 mm))

V – 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

VI – Adalet Assembly Part Number

XXXXX – Any five digit alphanumeric characters

Specific conditions of use:

- 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 or flameproof, for protection type 'tb', and have a minimum IP66 rating. 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 Edition.
- All conductors/cables shall be copper and shall be suitable for: 80°C when $-50^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$, 95°C when $-50^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$, 100°C when $-50^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$, 110°C when $-50^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$.
- 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.