



# 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](http://www.iecex.com)

Certificate No.: IECEx UL 12.0038X 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 (2013-3-14)  
Issue No. 0 (2013-3-4)

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

Electrical Apparatus: **Flameproof Enclosure with terminal Blocks**  
*Optional accessory:*

Type of Protection: **Flameproof "d", Dust By Enclosure "tb", Increased Safety "e"**

Marking: Ex d e IIB T6...T5 Gb  
Ex tb IIIC T100°C Db IP66  
T6 enclosures rated for -20°C to +40°C  
T5 enclosures rated for -20°C to +55°C

*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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4801 W. 150th Street  
Cleveland, OH 44135  
**United States of America**

Additional Manufacturing location  
(s):

**Adalet/Scott Fetzer Co.**  
4300 Winfern Road  
Suite 200  
Houston, TX 77044  
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 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:

<b>IEC 60079-0 : 2011</b> Edition: 6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2007-04</b> Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-31 : 2008</b> Edition: 1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
<b>IEC 60079-7 : 2006-07</b> 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/ExTR12.0046/00](#)

[US/UL/ExTR12.0046/01](#)

[US/UL/ExTR12.0046/02](#)

#### Quality Assessment Report:

[US/ETL/QAR11.0002/02](#)

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



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The XCEX-T and XCESX-T series of external flanged cast aluminium or 316 stainless steel enclosures may have conduit/cable entries in the box. The XCESX-T series is identical to the XCEX-T series of enclosures except that it is constructed from 316 stainless steel.

Please see Annex for additional information.

### CONDITIONS OF CERTIFICATION: YES as shown below:

Please see Annex for the Conditions of Certification.



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

Issue 1: Minor corrections to drawing designations.

Issue 2: Updating DS589TB and DS630 for the populated XCEX-T enclosures to include new terminal block options.

## Annex to IECEx UL 12.0038X Issue 2

Types of variants comprised by the certificate:

Model No. XCEX-T followed by 041604, 060804, 060805, 060806, 061105, 061204, 061206, 061305, 071004, 071006, 071805, 080804, 080806, 080808, 081004, 081006, 081008, 081204, 081206, 081208, 091105, 101004, 101006, 101008, 101206, 101404, 101406, 101408, 101410, 121204, 121206, 121208, 121804, 121806, 121808, 122005, 122404, 122406, 122408, 122410, 123006, 123604, 123606, 123608, 124608, 141404, 141406, 141408, 142210, 142213, 142806, 161604, 161606, 161608, 162406, 162408, 162410, 162806, 163010, 163406, 164610, 181804, 181806, 181808, 182406, 182408, 182410, 183008, 183608, 183610, 203606, 203612, 204806, 204812, 242408, 242410, 243008, 243608, 243610 and 323612 Enclosures. All numbers may be followed by –N4.

Model No. XCESX-T followed by 101408, 121208, 122410, 242410, and 243610 Enclosures.

### Conditions of Certification

- The maximum number of apertures, their maximum sizes and their positions shall be addressed through direct statement of reference to a drawing number.
- DS589M outlines all possible conduit entries.
- DS589TB outlines all possible terminal blocks.
- 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 unused device openings must be fitted with a certified close up plug equivalent of the apparatus and must be marked with an IP66 rating.
- All conductors/cables shall be copper and shall be suitable for: 80°C when  $-20 \leq T_a \leq +40^\circ\text{C}$  and 95°C when  $-20 \leq T_a \leq +55^\circ\text{C}$ .
- 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.
- When two wires are used, they shall be of the same type and size.
- All unused terminals shall be tightened.