



# 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 13.0039U issue No.:1  
Status: **Current**  
Date of Issue: **2015-03-18** Page 1 of 4  
Certificate history:  
Issue No. 1 (2015-3-18)  
Issue No. 0 (2013-6-7)

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

Electrical Apparatus: **Empty Flameproof Enclosures - XJ Series**  
*Optional accessory:*

Type of Protection: **Flameproof "d", Dust Ignition by Enclosure "tb"**

Marking: Ex d IIB + H<sub>2</sub> Gb  
Ex tb IIIC Db IP66  
-34°C to +100°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:* 2015-03-18

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

Additional Manufacturing location  
(s):

**Adalet/Scott Fetzer Co.**  
4300 Windfern Road  
Suite 200  
Houston, TX 77041  
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><br>Edition: 6.0  | Explosive atmospheres - Part 0: General requirements                                 |
| <b>IEC 60079-1 : 2007-04</b><br>Edition: 6 | Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"    |
| <b>IEC 60079-31 : 2008</b><br>Edition: 1   | Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't' |

*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/ExTR13.0039/00](#)

[US/UL/ExTR13.0039/01](#)

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 XJ Series of cast enclosures constructed of Aluminium or 316 Stainless Steel for use with threaded covers, containing specifications of threaded conduit entries and other threaded entries for various sized auxiliary operators. The covers are flat and may also include a glass viewing window that is cemented and mechanically retained in place.

Please see Annex for Nomenclature and Schedule of Limitations for Ex Components.

### CONDITIONS OF CERTIFICATION: NO

Empty box for conditions of certification.



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

Issue 1: Addition of manufacturing location.

## Annex for IECEx UL 13.0039U

### Type Variants Covered By the Approval:

<u>XJ</u>	<u>D</u>	<u>HX</u>	<u>6</u>	<u>N4</u>
I	II	III	IV	V

- I. Enclosure Material and Type  
XJ-Series Designation
- II. Enclosure Cover  
D, DF, DA, HA, HB, HC, K, KA, L, M, MA, MC, N6, N12, S, T, WH, WT, X, DFGC, DGC, HAGC, HBGC, HCGC, KGC, KAGC, LGC, MGC, MAGC, MCGC, NGC6, NGC12, TFGC, TGC, WHGC, WTGC, XGC.
- III. Marking Designation  
HX- (Class I, Groups B, C, and D; Class I, Zone 1, IIB+H<sub>2</sub>)
- IV. Enclosure Size  
Blank- Standard  
6 – 6 inch (only available on XJN and XJNGC)  
12 – 12 inch (only available on XJN and XJNGC)
- V. Environmental Designation  
N4- Type 4 Rating  
N4X- Type 4X Rating

### Temperature Range

The ambient temperature range is -50°C to +100 °C for use with a silicone o-ring and a solid cover.

The ambient temperature range is -34°C to +100°C for use with a Nitrile Buna N o-ring and either Adaseal or Adaseal II.

### Installation Instructions

No temperature tests were conducted as the enclosure is certified as an empty Ex component. The service temperature of the enclosures is based off the ambient temperature range of -50°C to +100°C for silicone o-rings. The service temperature of the enclosures with glass windows is based off the ambient temperature range of -34°C to +100°C for Nitrile Buna N o-rings, Adaseal window cement, and Adaseal II window cement.

### Schedule of Limitations for Ex Components

- The approval applies to equipment without cable glands. Only cable glands certified for protection types 'd', 'tb', and have an IP66 rating may be used.
- For enclosure outline dimensions, conduit/cable layout, and conduit/cable drilling and tapping instructions, refer to supplied datasheet.
- 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.
- Refer to supplied enclosure drawing for conduit/cable entry locations and sizes. Additional copies may be obtained from the factory. Include the enclosure serial number with any request.
- Oil-filled circuit breakers and contactors shall not be used.
- Rotating machines, or other devices which create turbulence, shall not be incorporated.
- The Hazardous Location Solutions reducers shall not be used for the direct inter-connection of enclosures.
- Only one Hazardous Location Solutions reducer shall be used with any single cable entry on the associated equipment.
- All conduit sealing fittings must be certified as flameproof 'd', dust ignition protection 'tb', and have a minimum IP66 rating equal to the marking on the enclosure.
- All unused device openings must be fitted with a certified close-up plug with protection types 'd', 'tb', and have an IP66 rating.
- The content of the Ex component enclosure equipment may be placed in any arrangement provided that an area of at least 40% of each cross-sectional area remains free to permit unimpeded gas flow and therefore, unrestricted development of an explosion.
- Enclosures shall be installed to a flat rigid surface using the mounting means provided.
- The end user shall provide earthing/bonding means as necessary.