



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

### Ex COMPONENT CERTIFICATE

Certificate No.: **IECEX UL 13.0039U** Page 1 of 4 Certificate history:  
Status: **Current** Issue No: 2 [Issue 1 \(2015-03-18\)](#)  
[Issue 0 \(2013-06-07\)](#)  
Date of Issue: 2023-02-28  
Applicant: **Adalet/Scott Fetzer Co.**  
4801 W. 150th Street  
Cleveland, OH 44135  
**United States of America**  
Ex Component: Empty Enclosures - XJ\*HX-\*\*  
*This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).*  
Type of Protection: **Flameproof "db", Dust Ignition Protection by Enclosure "tb"**  
Marking: Ex db IIB + H<sub>2</sub> Gb  
Ex tb III C Db

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)

2023-02-28

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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](http://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.**  
4801 W. 150th Street  
Cleveland, OH 44135  
**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 component 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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[IEC 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

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 component listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[US/UL/ExTR13.0039/00](#)

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

[US/UL/ExTR13.0039/02](#)

Quality Assessment Report:

[US/UL/QAR08.0003/11](#)



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**Ex Component(s) covered by this certificate is described below:**

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 additional information.**

**SCHEDULE OF LIMITATIONS:**

- The approval applies to equipment without cable glands. Only cable glands certified for protection types 'db', '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 'db', 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.



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

Issue 1: Addition of manufacturing location.

Issue 2: Updates standards to the latest editions. Remove QAR US/ETL/QAR11.0002/07 which is no longer supported.

### **Annex:**

[Annex to IECEx UL 13.0039U Issue 2.pdf](#)



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## TYPE DESIGNATION

Nomenclature:

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

## MARKING

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

<b>ADALET</b> Cleveland, Ohio 44135 USA	0539  II 2 G Ex db IIB + H2 Gb	Ex db IIB + H2 Gb
	0539  II 2 D Ex tb IIIC Db IP66	Ex tb IIIC Db IP66
	DEMKO 03ATEX0303070U	IECEx UL 13.0039U
Cat No: <input type="text"/>	<b>EMPTY ENCLOSURE WITH Ex COMPONENT CERTIFICATE</b>	<input type="text"/> ≤T <sub>a</sub> ≤ 100°C
Ser No: <input type="text"/>		YEAR: <input type="text"/>
ALL CONDUIT RUNS MUST HAVE A PROPERLY CERTIFIED SEALING FITTING CONNECTED WITHIN 50mm. ALL CABLE ENTRIES, STOPPING BOXES OR PLUGS SHALL BE PROPERLY CERTIFIED.		REFER TO INSTALLATION INSTRUCTION & SAFETY DATA SHEET
		6815A



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## **ROUTINE EXAMINATIONS AND TESTS**

Each piece of equipment defined above has to have successfully passed; before delivery:

Routine Overpressure Tests per Clause 16.1.1 of IEC 60079-1 are required on the XJNGCHX6 and XJNGCHX12 using a pressure of 18.8 bar (273 PSI).

## **LIST OF CERTIFIED COMPONENTS**

<b>Product</b>	<b>Certificate Number</b>	<b>Standards</b>
Close Up Plugs, Type D and U	IECEX SIR 07.0048X	IEC 60079-0 Ed 7 IEC 60079-1 Ed 7 IEC 60079-31 Ed 2 IEC 60079-7 Ed 5.1
Breather Drains, Type Bd	IECEX SIR 07.0045U	IEC 60079-0 Ed 7 IEC 60079-1 Ed 7 IEC 60079-31 Ed 2 IEC 60079-7 Ed 5.1
Adapters, Type A	IECEX SIR 07.0047X	IEC 60079-0 Ed 7 IEC 60079-1 Ed 7 IEC 60079-31 Ed 2 IEC 60079-7 Ed 5.1
Reducers	IECEX SIR 07.0046X	IEC 60079-0 Ed 7 IEC 60079-1 Ed 7 IEC 60079-31 Ed 2 IEC 60079-7 Ed 5.1
Elbows, Type N	IECEX SIR 07.0044X	IEC 60079-0 Ed 7 IEC 60079-1 Ed 7 IEC 60079-31 Ed 2 IEC 60079-7 Ed 5.1