



# 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.:  issue No.:

Status:

Date of Issue: **2012-09-21** Page 1 of 4

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

Electrical Apparatus: **Component Enclosures - XIHS Series**  
Optional accessory:

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

Marking: **Ex d IIC Gb**  
**Ex tb IIIC Db IP66**

Approved for issue on behalf of the IECEx  
Certification Body:

Paul T. Kelly

Position:

Principal Engineer, Global Hazardous Locations

Signature:  
(for printed version)

Date:

2012-09-21

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





# IECEx Certificate of Conformity

Certificate No.: IECEx UL 12.0019U

Date of Issue: 2012-09-21

Issue No.: 0

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

#### 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:

<b>IEC 60079-0 : 2007-10</b> Edition: 5	Explosive atmospheres - Part 0: Equipment - General requirements
<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'

*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/ExTR12.0021/00](#)

Quality Assessment Report:

[US/UL/QAR08.0003/04](#)



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## Schedule

### EQUIPMENT:

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

The XIHS\_X series of enclosures are constructed from aluminium alloy 359 or stainless steel alloy 316. The enclosures are with a flat cover or dome cover. The enclosures are intended for use primarily as connection fittings.

See Annexe for Nomenclature details.

CONDITIONS OF CERTIFICATION: NO



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## EQUIPMENT(continued):

### Schedule of Limitations for Ex Components:

- All unused device openings must be fitted with a certified close-up plug rated equivalent or greater to the marking on the apparatus and have an IP66 rating.
- No temperature tests were conducted as the enclosure is certified as an empty Ex component. The maximum service temperature is based off the ambient temperature of -34°C to +100°C for Dust atmospheres.
- 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.
- At least 40% of each cross-sectional area must remain free to permit unimpeded gas flow and therefore, unrestricted development of an explosion.
- All conduit fittings must be certified as flameproof "d", dust ignition proof "tb" and have a minimum IP66 rating equal to the marking on the enclosure.
- The threaded joint between the cover and body is other than the tolerances specified in Table 3 of IEC 60079-1. Reference Drawing No. DS918M for joint details.
- Oil-filled circuit breakers and contactors shall not be used.
- Rotating machines, or other devices which create turbulence, shall not be incorporated.
- The cross-sectional area of the corresponding internal ground conductor must be taken into account during final product evaluation.
- The external grounding connector allows for a 4mm<sup>2</sup> to #10 AWG size wire to be connected.

**Annexe to IECEx UL 12.0019U Issue 0.**

Nomenclature for XIHS\_X series enclosures:

XIHSX FCX 3

I        II     III

**I- Enclosure Body**

XIHSB- Enclosure body with one conduit entry on the bottom and one conduit entry on the side

XIHSC-Enclosure body with two conduit entries on the side across from each other

XIHSD- Enclosure body with two conduit entries on the side across from each other and one conduit entry centered on the bottom

XIHSL-Enclosure body with two conduit entries on the side with a 90° angle between them

XIHST-Enclosure body with three conduit entries on the side, two entries across from each other and the other entry directly between the other entries

XIHSX-Enclosure body with four conduit entries on the side equally spaced apart

XIHSY-Enclosure body with two conduit entries at a 45° angle

**II- Cover**

FCX- Flat Cover

DCX- Dome Cover

**III- Conduit Entry Size**

2- 1/2 in. NPT entries

3- 3/4 in. NPT entries

4- 1 in. NPT entries