



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 10.0046U** issue No.: **2**

Status: **Current**

Certificate history:
Issue No. 2 (2012-5-31)
Issue No. 1 (2012-5-8)
Issue No. 0 (2011-11-3)

Date of Issue: **2012-05-31** Page 1 of 5

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

Electrical Apparatus: **Empty Flameproof Enclosures - XCEX and XCESX Series***
Optional accessory:

Type of Protection: **Flameproof "d", Protection by Enclosure "tD"**

Marking: **Ex d IIB Gb**
Ex tD A21 IP66

Approved for issue on behalf of the IECEx
Certification Body:

Erin O'Shea

Position:

Senior Project Engineer

Signature:
(for printed version)

Date:

2012-05-31

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 10.0046U

Date of Issue:

2012-05-31

Issue No.: 2

Page 2 of 5

Manufacturer:

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

Manufacturing location(s):

**Adalet, A Scott Fetzer
Company**
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:

IEC 60079-0 : 2007-10 Edition: 5	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-1 : 2007-04 Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 61241-0 : 2004 Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
IEC 61241-1 : 2004 Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

*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/ExTR10.0056/00

US/UL/ExTR10.0056/01

US/UL/ExTR10.0056/02

Quality Assessment Report:

US/ETL/QAR11.0002/00

US/UL/QAR08.0003/04



IECEx Certificate of Conformity

Certificate No.: IECEx UL 10.0046U

Date of Issue:

2012-05-31

Issue No.: 2

Page 3 of 5

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The XCEX and XCESX series of external flanged cast aluminum or 316 stainless steel enclosures may have conduit/cable entries in the box and openings in the cover for threaded circular windows, cemented in place rectangular windows, and threaded auxiliary device operators.

The XCEX 081004N4-S7620 enclosure is similar to the model No. XCEX 081004-N4 enclosure except for cover machining differences, four 3/8-16 UNC 2B cover operator openings.

The XCESX series is identical to the XCEX series of enclosures except that it is constructed from 316 stainless steel.

Type of variants comprised by the certificate:

Model No. XCEX followed by (inside of box in in.) 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 or X.

Model No. XCESX followed by (inside of box in in.) 101408, 121208, 122410, 242410 and 243610. All numbers may be followed by -N4 or X.

CONDITIONS OF CERTIFICATION: NO



IECEx Certificate of Conformity

Certificate No.: IECEx UL 10.0046U

Date of Issue: 2012-05-31

Issue No.: 2

Page 4 of 5

EQUIPMENT(continued):

Schedule of Limitations:

- The maximum number of apertures, their maximum sizes and their positions shall be addressed through direct statement or reference to a drawing number.
- Rotating machines, or other devices which create turbulence, shall not be incorporated.
- Oil-filled circuit-breakers and contactors shall not be used.
- Ambient temperature range of -40°C to +60°C.
- Content of the enclosure equipment may be placed in any arrangement, provided that an area of at least 20% of each cross-sectional area remains free to permit an unimpeded gas flow and, therefore, unrestricted development of an explosion. Separate relief areas may be aggregated provided that each area has a minimum dimension in any direction of 12.5 mm.
- Maximum operating temperature of windows is from -40°C to +100°C.
- Auxiliary devices were evaluated for use in -20°C to +40°C ambient. Consideration should be given to the effects of use outside of these temperatures.
- The glass windows were tested for thermal shock to +100°C. Consideration should be given to the effects of use outside of these temperatures.



IECEx Certificate of Conformity

Certificate No.: IECEx UL 10.0046U

Date of Issue:

2012-05-31

Issue No.: 2

Page 5 of 5

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

Issue 1: Addition of XCESX Series of enclosures. The XCESX Series of enclosures are identical to the XCEX Series of enclosures, except for being constructed out of 316 stainless steel.

Issue 2: Addition of heat treated cover to Models XCEX 122005, 122404, 122406, 122408, 122410, 123006, 123604, 123606 and 123608 and increasing the cover thickness of Models XCEX 101008, 101206, 101404, 101406, 101408, 101410, 121204, 121206, 121208, 121804, 121806 and 121808. Also added the Houston facility as a manufacturer.