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 16.0081U issue No.:0	Certificate history:
Status:	**Current**	
Date of Issue:	**2016-06-08**	Page 1 of 3

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

Equipment: **Enclosures, XCEX and XCESX**
Optional accessory:

Type of Protection: **Flameproof "db", Enclosure "tb"**

Marking: Ex db IIB+H2 Gb

Ex tb IIIC Db IP66

Service temperature range: -20°C to +60°C

Approved for issue on behalf of the IECEx Certification Body: Katy A. Holdredge

Position: Senior Staff Engineer

Signature: (for printed version)

Date: 2016-06-08

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.

Certificate issued by:

UL LLC
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America

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Date of Issue: **2016-06-08** Issue No.: **0**

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

Additional 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:

IEC 60079-0 : 2011 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition: 7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2013 Edition: 2	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/ExTR16.0092/00

Quality Assessment Report:

US/UL/QAR08.0003/06

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Schedule

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

The XCEX and XCESX series of external flanged cast aluminium 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.

See Annex for additional information.

CONDITIONS OF CERTIFICATION: NO

See Annex for Conditions of Certification.

Annex: Annex to IECEx UL 16.0081U Issue 0.pdf

Model No. XCEX 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, 242408, 242410, 243008, 243608, 243610 and 323612 Enclosures. All numbers may be followed by –N4 or –N4X.

Model No. XCESX followed by 081006, 101408, 121208, 122410, 161608, 182410, 242410, and 243610 Enclosures. All numbers may be followed by –N4 or –N4X.

The XCEX 041604 model is only suitable for gas atmospheres.

Conditions of Certification

- 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 a request.
- The following items shall not be fitted internally:
    - Batteries, cells, or any other item liable to be a source of release
    - Rotating machines, or other devices which create turbulence, shall not be incorporated.
    - Any liquid including oil filled circuit breakers or contactors
    - Radiating equipment (laser, continuous wave sources & ultrasonic wave sources)
- At least 40% of each cross-sectional area must remain free to permit unimpeded gas flow and therefore, unrestricted development of an explosion.
- All unused openings must be fitted with certified flameproof blanking elements that have a flameproof ‘db’, dust protection by enclosure ‘tb’, and have a minimum IP66 rating equal to the marking on the enclosure.
- The enclosure certification applies to equipment without conduit seal fittings (stopping boxes). When installing conduit seal fittings (stopping boxes), they must be certified as flameproof and have a flameproof ‘db’, dust protection by enclosure ‘tb’, and have a minimum IP66 rating equal to the marking on the enclosure.
- Maximum operating temperature of windows is from -40ºC to +70ºC.
- The glass windows were tested for thermal shock to +100ºC and were conditioned at +100°C. Further evaluation by a notified body is required for use outside of these temperatures.
- The approval applies to equipment without cable glands. When installing cable glands, the cable gland must be certified as flameproof and have a flameproof ‘db’, dust protection ‘tb’, and have a minimum IP66 rating equal to the marking on the enclosure.
- 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.
- Only one Hazardous Location Solutions reducer shall be used with any single cable entry on the associated equipment.
- The Hazardous Locations Solutions reducers shall not be used for the direct interconnection of enclosures.

- All plugs are for one time use only.