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

Certificate No.:	**IECEx UL 10.0046U**	Page 1 of 4	Certificate history:
Status:	**Current**	Issue No: 3	Issue 2 (2012-05-31) Issue 1 (2012-05-08) Issue 0 (2011-11-03)
Date of Issue:	2023-10-16		

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

Equipment: **Empty Enclosures, Series XCEX******-** and XCESX******-****

Optional accessory: Plugs, Operators/Auxiliary Devices, Drain and Breather Fittings, Windows.

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

Marking: Ex db IIB Gb

Ex tb IIIC 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)

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2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

UL Solutions (US)
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America

IECEx Certificate of Conformity

Certificate No.: **IECEx UL 10.0046U**

Date of issue: 2023-10-16

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

Test Reports:

US/UL/ExTR10.0056/00 US/UL/ExTR10.0056/01 US/UL/ExTR10.0056/02
US/UL/ExTR10.0056/03

Quality Assessment Report:

US/UL/QAR08.0003/11

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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.

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.

Please see Annex for additional information.

- Contact Adalet for information on the dimensions of flameproof joints.
- The maximum number of apertures, their maximum sizes and their positions are referenced in drawing no. DS483M for the XCEX enclosures and drawing no. DS900M for the XCESX enclosures.
- Oil-filled circuit-breakers and contactors shall not be used.
- Ambient temperature range is -40ºC to +60ºC for Models XCEX 041604, 060804, 060805, 060806, 061105, 061204, 061206, 061305, 071004, 071006, 071805, 080804, 080806, 080808, 081004, 081006, 081008, 081204, 081206, 081208, 091105, 101004, 101006, 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 and 204812.
- Ambient temperature range is -20ºC to +60ºC for all other models.
- 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.
- Service temperature range of XGC30, XGC40, XGC52, and XGC66 windows is from -34°C to +100°C. Service temperature range of XGC10, XGC20, and XGC80 is -34°C to +70°C. Service temperature range of all other windows covered is -40ºC to +70ºC.
- For XCEX enclosures only: The XGC window assemblies shall be used with enclosures marked with an ambient temperature range of -20°C to +60°C only.
- Auxiliary devices were evaluated for use in -20ºC to +40ºC ambient. Consideration should be given to the effects if used outside this temperature range.
- The glass windows were tested for thermal shock to +100ºC and were conditioned at +100ºC. Consideration should be given to the effects of use outside of these temperatures.
- For XCEX enclosures only: The following blanking element part numbers shall be used with enclosures marked with an ambient temperature range of -20°C to +60°C only: 15562-7, 6014, 6084, 6085, and 7069.
- 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.

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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.

Issue 3: Update IEC 60079-0, IEC 60079-1, IEC 60079-31 to the latest editions. Remove QAR US/ETL/QAR11.0002/07 which is no longer supported. Addition of XCESX 081606, 161608, and 182410 enclosure models.

Annex:

Annex to IECEx UL 10.0046U Issue 3.pdf

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TYPE DESIGNATION

Nomenclature:

Types of variants comprised by the certificate:

XCEX Series:

XCEX	041604	N4
I	II	III

I. Enclosure Series Designation
XCEX

II. Enclosure Size
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
323612

III. Environmental Rating
N4 - Type 4 Rating
N4X - Type 4X Rating

XCESX Series:

XCESX	081006	N4
I	II	III

I. Enclosure Series Designation
XCESX

II. Enclosure Size
081006
101408
121208
122410
161608
182410
242410
243610

III. Environmental Rating
N4 - Type 4 Rating
N4X - Type 4X Rating

Plugs:
Model XPP3, XMPP, XPB1 N4, XPB2 N4, XPPH3 N4, XPPH4 N4, 5318 Series, XPP2 N4, OX, 5318-S Series and 6085.

Operators/Auxiliary Devices:
Model XCS-1, XCS-2, XCS-3, XCS-4, XCS-5, XRB, XRBL, XBOS, XHDMC, XHDMCS, XHDPB, XHDPBS, XHKSC, XHKSL, XHKSR, XHKSS, XHKSSC, XHKSSL, XHKSSR, XHKSSS, XHPB, XHPBPL, XHPBM, XHPBMS, XHPBS, XHPBSPL, XHPPM, XHSC, XHSL, XHSR, XHSS, XHSSC, XHSSL, XHSSPL, XHSSR, XHSSS, XHSSSPL, XPO, XPOL, XPOC, XPOCS, XPOS, XPOSL, XSSL-4P, XSSL-5P, XSSS-4P, XSSS-5P, XBO, XHPPMS, XIRBS, XMOBS-1 to -14, XMORBS, XIRB, XMOSS-1 to -3, XMOB-1 to -14, XMORB, XMOS-1 to -3, XCBH 21 XCBH 22, XCBH1GF-L, XCBH1GF-R, XPB1-GL1, XPB1-H1, XPB1-H2, XPB1-H3, XPB1GL2, XPB2-H1, XCBH2-1, XCBH2-2, XCBH2-3, XCBH2-4, XCBH2-X Series, XMOL, XLX, XLXS, XLX-G, XLSX-G, XLPS_X, XLP_X, XHPBLMS, XHPBLM, XHPPMS, XPBH1, XBOS2-6, XRSO1, XHPBPLG.

Drain and Breather Fittings:
Model XDBH2 (IP 40 only).

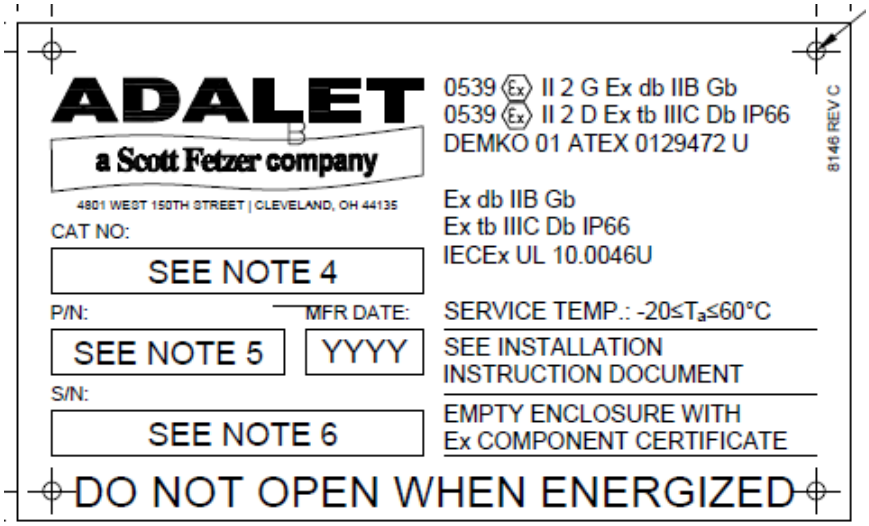
Windows:
Models XGC10, XGC20, XGC30, XGC40, XGC52, XGC66 and XGC80.
Model Series XGW:

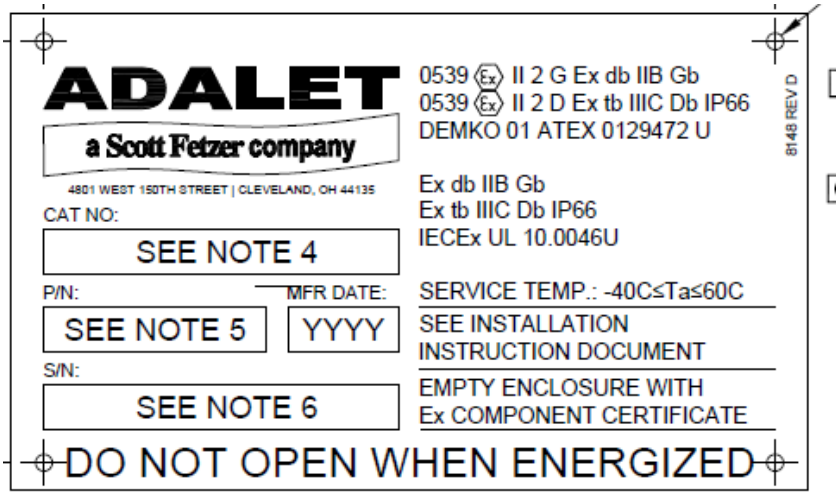
XGW A B, Example XGW 0709 (7 in. x 9 in.)

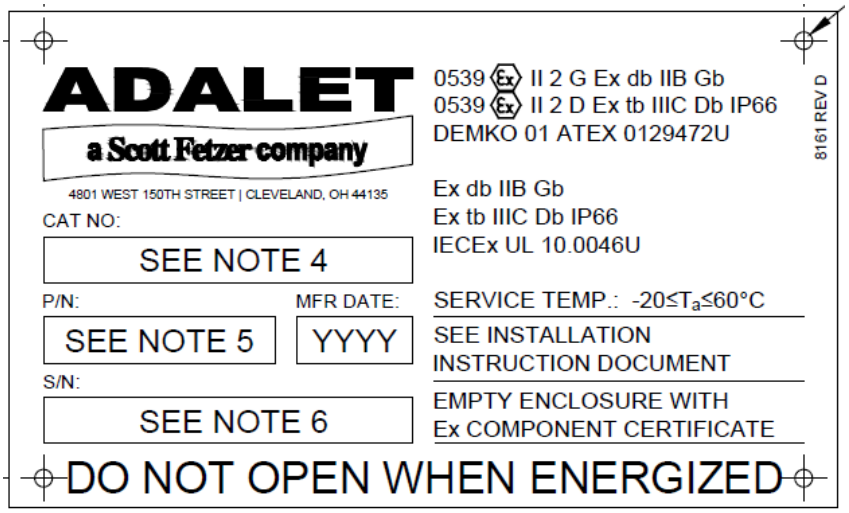
01 – 1 in. (25 mm)	05 – 5 in. (130 mm)	10 – 10 in. (250 mm)
015 – 1.5" (40 mm)	06 – 6 in. (150 mm)	11 – 11in. (280 mm)
02 – 2 in. (50 mm)	07 – 7 in. (180 mm)	12 – 12 in. (300 mm)
03 – 3 in. (80 mm)	08 – 8 in. (200 mm)	13 – 13 in. (330 mm)
04 – 4 in. (100 mm)	09 – 9 in. (230 mm)	

MARKING

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







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 following XCEX models for an ambient range of -20ºC to +60ºC:

323612.

Routine Overpressure Tests per Clause 16.1.1. of IEC 60079-1 are required on the following XCEX models for an ambient range of -40ºC to +60ºC:
060804, 060805, 060806, 061105, 061204, 061206, 061305, 071004, 071006, 071805, 080804, 080806, 080808, 081004, 081006, 081008, 081204, 081206, 081208, 091105, 101004, 101006, 123606, 123608, 124608, 141404, 141406, 141408, 142210, 142213, 142806, 161604, 161606, 161608, 162406, 162408, 162410, 162806, 163010, 163406 and 164610