



# 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)

### Ex COMPONENT CERTIFICATE

Certificate No.: IECEx UL 16.0081U Issue No: 1 Certificate history:  
Status: **Current** Page 1 of 4 Issue No. 1 (2019-04-03)  
Date of Issue: **2019-04-03** Issue No. 0 (2016-06-08)  
Applicant: **Adalet/Scott Fetzer Co.**  
4801 W. 150th Street  
Cleveland, OH 44135  
**United States of America**  
Ex Component: **Enclosures, XCEX and XCESX Series**

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+H2 Gb

Ex tb III C Db IP66

-20°C ≤ Ta ≤ +60°C

Approved for issue on behalf of the IECEx  
Certification Body:

Lucy Frieders

Position:

Staff Engineer

Signature:  
(for printed version)

Date:

2019-04-03

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





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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 Component 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 Ex 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 : 2011** Explosive atmospheres - Part 0: General requirements  
Edition:6.0

**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 electrical safety and performance requirements other than those expressly included in the Standards listed above.*

## TEST & ASSESSMENT REPORTS:

*A sample(s) of the Ex Component listed has successfully met the examination and test requirements as recorded in*

Test Report:

[US/UL/ExTR16.0092/01](#)

Quality Assessment Report:

[US/UL/QAR08.0003/08](#)



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## Schedule

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

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.

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.

**Please see Annex for additional information.**

### SCHEDULE OF LIMITATIONS:

- 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:
  - Rotating machines, or other devices which create turbulence, shall not be incorporated.
  - Any liquid including oil filled circuit breakers or contactors
- 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 -40°C to +70°C.
- The glass windows were tested for thermal shock to +100°C 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.



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

Issue 1: Updated Schedule of Limitations and Drawing DS988 and Drawing 9232-3. The changes do not affect the construction of the enclosure.

**Annex:**

[Annex to IECEX UL 16.0081U Issue 1.pdf](#)



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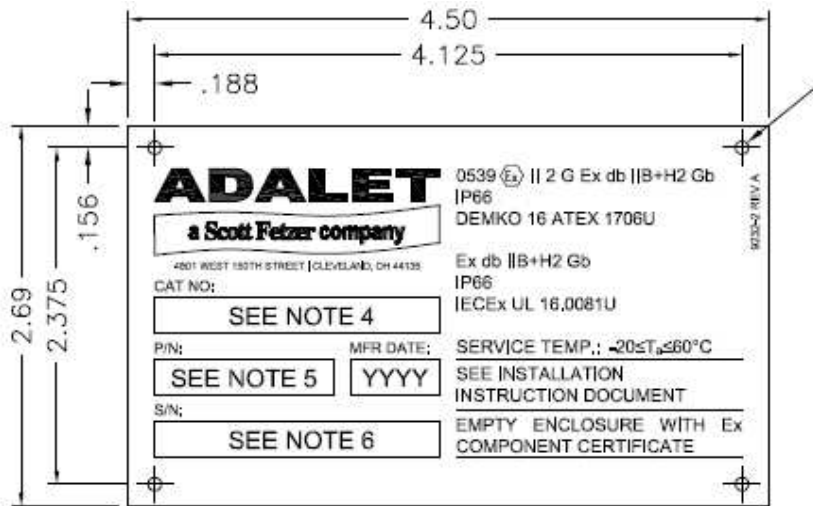
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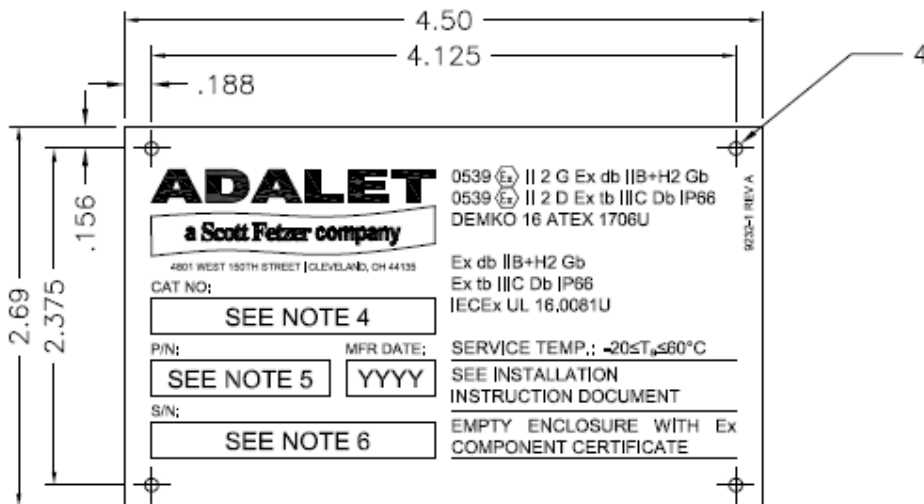
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## MARKING

Without dust 'tb' rating:



With dust 'tb' rating:





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Without dust 'tb' rating, IP66 removed:

<b>ADALET</b> a Scott Fetzer company 4801 WEST 150TH STREET   CLEVELAND, OH 44135	0539 II 2 G Ex db IIB+H2 Gb DEMKO 16 ATEX 1706U Ex db IIB+H2 Gb IECEX UL 16.0081U SERVICE TEMP.: $-20 \leq T_a \leq 60^\circ\text{C}$ SEE INSTALLATION INSTRUCTION DOCUMENT EMPTY ENCLOSURE WITH Ex COMPONENT CERTIFICATE
CAT NO: <b>SEE NOTE 4</b>	
P/N: <b>SEE NOTE 5</b>	MFR DATE: <b>YYYY</b>
S/N: <b>SEE NOTE 6</b>	

9232-3 REV A

## ROUTINE EXAMINATIONS AND TESTS

Routine overpressure tests per Clause 16.1.2 of IEC 60079-1 are required on the following XCEX models for an ambient range of  $-20^\circ\text{C}$  to  $+60^\circ\text{C}$ : 323612.