



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 12.0038X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 4	Issue 3 (2020-06-26)
Date of Issue:	2022-09-30		Issue 2 (2015-02-25)
Applicant:	Adalet/Scott Fetzer Co. 4801 W. 150th Street Cleveland, OH 44135 United States of America		Issue 1 (2013-03-14)
Equipment:	Flameproof Enclosure with terminal blocks		Issue 0 (2013-03-04)
Optional accessory:			
Type of Protection:	Flameproof "db", ", Increased Safety "eb", Dust Ignition Protection by Enclosure "tb		
Marking:	Ex db eb IIB T6..T5 Gb		
	Ex db eb IIB+H2 T6..T5 Gb		
	Ex tb IIIC T100°C Db IP66		
	T6 enclosures rated for -20°C to +40°C		
	T5 enclosures rated for -20°C to +55°C		

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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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

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

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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/ExTR12.0046/00](#)
[US/UL/ExTR12.0046/03](#)

[US/UL/ExTR12.0046/01](#)
[US/UL/ExTR12.0046/04](#)

[US/UL/ExTR12.0046/02](#)

Quality Assessment Report:

[US/UL/QAR08.0003/10](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The XCEX-T and XCESX-T series of external flanged cast aluminium or 316 stainless steel enclosures may have conduit/cable entries in the box.

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

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The maximum number of apertures, their maximum sizes and their positions shall be addressed through direct statement or reference to a drawing number.
- See outline drawings DS589M outlines all possible conduit/cable layout information, minimum wire bending requirements, and minimum electrical clearance.
- DS589TB-XCEX-T outlines all possible terminal blocks.
- The number of conductors entering the enclosure plus the number of internal connections (bridges and ground conductors are not counted) shall not exceed that of the Enclosure Size Terminal Content sheets.
- After installation, all creepage distances and clearances shall be according to Table 2 in IEC 60079-7, Edition 5.1.
- All conductors/cables shall be copper and shall be suitable for: 80°C when $-20 \leq T_a \leq +40^\circ\text{C}$ and 95°C when $-20 \leq T_a \leq +55^\circ\text{C}$.
- Each terminal block shall not be specified to accommodate more than one individual conductor in a clamping point unless specifically designed and assessed for doing so.
- For screwless connections intended for Class 5 or Class 6 fine stranded conductors according to IEC 60228, the fine stranded wire shall be equipped with a ferrule or the termination shall have a method to open the clamping mechanism so that the conductors are not damaged during installation of the conductor.
- When two wires are used, they shall be of the same type and size.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1: Minor corrections to drawing designations.

Issue 2: Updating DS589TB and DS630 for the populated XCEX-T enclosures to include new terminal block options.

Issue 3: The XCEX-T and XCESX-T terminal enclosures were evaluated to the latest editions of the standards IEC 60079-1, IEC 60079-7, and IEC 60079-31, and the supporting documentation was updated. No construction changes were covered in this revision.

Issue 4: Updated IEC 60079-0 to the latest edition. Removed QAR US/ETL/QAR11.0002/07 which is no longer supported.

Annex:

[Annex to IECEx UL 12.0038X Issue 4.pdf](#)



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TYPE DESIGNATION

Types of variants comprised by the certificate:

Model No. XCEX-T 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, 204806, 204812, 242408, 242410, 243008, 243608, 243610 and 323612 Enclosures. All numbers may be followed by -N4.

Model No. XCESX-T followed by 081006, 101408, 121208, 122410, 161608, 182410, 242410, and 243610 Enclosures.

PARAMETERS RELATING TO THE SAFETY

Maximum Voltage = 1100 V; Maximum Current = 500 Amps (dependent on the terminal block installed)

Rated Ambient Temperature Range = T6 enclosures rated for -20°C to +40°C
T5 enclosures rated for -20°C to +55°C

MARKING

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

<p>ADALET a Scott Fetzer company 4801 WEST 100TH STREET CLEVELAND, OH 44135</p> <p>Ex db eb <input type="checkbox"/> T <input type="checkbox"/> Gb -20≤Ta≤ <input type="checkbox"/> °C Ex tb IIIC T100°C Db IP66 IECEX UL 12.0038X</p> <p>Cat. No. <input type="text"/></p> <p>Serial No. <input type="text"/></p> <p>CE 0539 <input type="checkbox"/> II 2 G Ex db eb <input type="checkbox"/> T <input type="checkbox"/> Gb -20≤Ta≤ <input type="checkbox"/> °C CE 0539 <input type="checkbox"/> II 2 D Ex tb IIIC T100°C Db IP66 DEMKO 12 ATEX 1208439X Class I, Groups BCD Class II, Groups EFG Class III, TYPE 4 Class I, Zone 1, AEx d IIB T6 OR T5: -20≤Ta≤55°C</p> <p>CAUTION: TO PREVENT IGNITION OF HAZARDOUS ATMOSPHERE, DISCONNECT FROM SUPPLY CIRCUIT BEFORE OPENING ENCLOSURE. KEEP COVER CLOSED WHEN CIRCUIT IS ACTIVE. COVER JAW MUST BE CLEANED BEFORE REMOVING COVER. FOR DIVISION INSTALLATIONS USING CONDUIT, A SEALING DEVICE IS REQUIRED WITHIN 18" (457mm) FOR ZONE INSTALLATION. DEMO ONLY. A SEALING DEVICE IS REQUIRED IMMEDIATELY AT THE ENTRANCE OF THE ENCLOSURE. ALL CABLE ENTRIES, STOPPING BOXES OR PLUGS SHALL BE CERTIFIED FOR THE APPLICATION.</p> <p>ATTENTION: POUR ÉVITER L'ÉCLAIRCISSANT D'UN MÉTIER DANGEREUX, DÉCONNECTER DU CIRCUIT D'ALIMENTATION AVANT D'OUVRIRE LE BOÎTIER. GARDER LE BOÎTIER FERMÉ LORSQUE LES CIRCUITS SONT ACTIFS. NETTOYER LES SURFACES DE CONTACT DU COUVERCLE AVANT DE LE RETENIR EN PLACE. POUR LES INSTALLATIONS DE DIVISIONS QUI UTILISENT UN CONDUIT, UN DISPOSITIF D'ÉTANCHÉITÉ DOIT ÊTRE CONNECTÉ DANS LES PREMIERS 457mm. POUR LES INSTALLATIONS DE LA ZONE 1 AU LIEU DE CONDUIT, UN DISPOSITIF D'ÉTANCHÉITÉ EST REQUIS IMMÉDIATEMENT À L'ENTRÉE DU BOÎTIER/TOUTES LES ENTRÉES DE CABLES. NOTER: DÉMONTREZ SEULEMENT LES BOÎTIERS CERTIFIÉS POUR L'APPLICATION.</p> <p>DO NOT OPEN WHEN ENERGIZED</p>	<p>ADALET a Scott Fetzer company 4801 WEST 100TH STREET CLEVELAND, OH 44135</p> <p>Ex db eb <input type="checkbox"/> T <input type="checkbox"/> Gb -20≤Ta≤ <input type="checkbox"/> °C Ex tb IIIC T100°C Db IP66 IECEX UL 12.0038X</p> <p>Cat. No. <input type="text"/></p> <p>Serial No. <input type="text"/></p> <p>CE 0539 <input type="checkbox"/> II 2 G Ex db eb <input type="checkbox"/> T <input type="checkbox"/> Gb -20≤Ta≤ <input type="checkbox"/> °C CE 0539 <input type="checkbox"/> II 2 D Ex tb IIIC T100°C Db IP66 DEMKO 12 ATEX 1208439X Class I, Groups BCD Class II, Groups EFG Class III, TYPE 4 Class I, Zone 1, AEx d IIB T6 OR T5: -20≤Ta≤55°C</p> <p>CAUTION: TO PREVENT IGNITION OF HAZARDOUS ATMOSPHERE, DISCONNECT FROM SUPPLY CIRCUIT BEFORE OPENING ENCLOSURE. KEEP COVER CLOSED WHEN CIRCUIT IS ACTIVE. COVER JAW MUST BE CLEANED BEFORE REMOVING COVER. FOR DIVISION INSTALLATIONS USING CONDUIT, A SEALING DEVICE IS REQUIRED WITHIN 18" (457mm) FOR ZONE INSTALLATION. DEMO ONLY. A SEALING DEVICE IS REQUIRED IMMEDIATELY AT THE ENTRANCE OF THE ENCLOSURE. ALL CABLE ENTRIES, STOPPING BOXES OR PLUGS SHALL BE CERTIFIED FOR THE APPLICATION.</p> <p>ATTENTION: POUR ÉVITER L'ÉCLAIRCISSANT D'UN MÉTIER DANGEREUX, DÉCONNECTER DU CIRCUIT D'ALIMENTATION AVANT D'OUVRIRE LE BOÎTIER. GARDER LE BOÎTIER FERMÉ LORSQUE LES CIRCUITS SONT ACTIFS. NETTOYER LES SURFACES DE CONTACT DU COUVERCLE AVANT DE LE RETENIR EN PLACE. POUR LES INSTALLATIONS DE DIVISIONS QUI UTILISENT UN CONDUIT, UN DISPOSITIF D'ÉTANCHÉITÉ DOIT ÊTRE CONNECTÉ DANS LES PREMIERS 457mm. POUR LES INSTALLATIONS DE LA ZONE 1 AU LIEU DE CONDUIT, UN DISPOSITIF D'ÉTANCHÉITÉ EST REQUIS IMMÉDIATEMENT À L'ENTRÉE DU BOÎTIER/TOUTES LES ENTRÉES DE CABLES. NOTER: DÉMONTREZ SEULEMENT LES BOÎTIERS CERTIFIÉS POUR L'APPLICATION.</p> <p>DO NOT OPEN WHEN ENERGIZED</p>
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ROUTINE EXAMINATIONS AND TESTS

Routine dielectric testing is required for the Phoenix Contact UT 2.5/35 detailed on DS589TB-XCEX-T. The dielectric tests shall be performed per Clause 7.1 of IEC 60079-7 Edition 5.1, in combination with Clause 6.1. The dielectric test shall be carried out at 1.2 times the test voltage and maintained for at least 100 milliseconds.

LIST OF CERTIFIED COMPONENTS

The following additional previous editions of Standards noted under the "Standards" section of this Certificate were applied to integral Components as itemized below. There are no significant safety related changes between these previous editions and the editions noted under the "Standards" section.		
Product	Certificate Number	Standards
Terminal Block, Model, ST 1.5 (-PE), manufactured by Phoenix Contact	IECEX KEM 06.0043U	IEC 60079-0:2017 IEC 60079-7:2017
Terminal Block, Model, ST 2.5 (-PE), manufactured by Phoenix Contact	IECEX KEM 06.0051U	IEC 60079-0:2017 IEC 60079-7:2017
Terminal Block, Model, ST 4/6 (-PE), manufactured by Phoenix Contact	IECEX KEM 06.0050U	IEC 60079-7:2017 IEC 60079-7:2017
Terminal Block, Model, UK 10N, UK35, UKH 50-95, manufactured by Phoenix Contact	IECEX KEM 06.0029U	IEC 60079-0:2017 IEC 60079-7:2017
Terminal Block, Model, UKH 150, UKH 240, manufactured by Phoenix Contact	IECEX KEM 06.0030U	IEC 60079-7:2017 IEC 60079-7:2017
Terminal Block, Model, UT 2.5/35 (-PE), manufactured by Phoenix Contact	IECEX KEM 06.0027U	IEC 60079-0:2017 IEC 60079-7:2017
Terminal Block, Model 1492-L, manufactured by Rockwell	IECEX ULD 18.0123U	IEC 60079-0:2017 IEC 60079-7:2017
Terminal Block, Model SAKK, manufactured by Weidmuller	IECEX TUR 18.0018U	IEC 60079-0:2017 IEC 60079-7:2017



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Terminal Block, Model WDU, WDK, WPE, 2.5-70, 2.5-70N, 2.5 T/C, manufactured by Weidmuller	IECEX ULD 14.0005U	IEC 60079-0:2017 IEC 60079-7:2017
Terminal Block, Model WFF, manufactured by Weidmuller	IECEX ULD 15.0004U	IEC 60079-0:2017 IEC 60079-7:2017
Terminal Block, Model ZDU, ZDK, ZPE, ZDUB, manufactured by Weidmuller	IECEX ULD 16.0036U	IEC 60079-0:2017 IEC 60079-7:2017