



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

Ex COMPONENT CERTIFICATE

Certificate No.:	IECEX UL 09.0001U	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 3	Issue 2 (2019-12-16)
Date of Issue:	2023-11-16		Issue 1 (2014-04-11)
Applicant:	Adalet/Scott Fetzer Co. 4801 W. 150th Street Cleveland, OH 44135 United States of America		Issue 0 (2009-07-13)
Ex Component:	Contact Block, Cat. No. EBT		

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", Increased Safety "eb"**

Marking: Ex db eb IIC Gb

Approved for issue on behalf of the IECEx
Certification Body:

Lucy Frieders

Position:

Staff Engineer

Signature:
(for printed version)

Date:
(for printed version)

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.
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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 09.0001U**

Page 2 of 4

Date of issue: 2023-11-16

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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 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 60079-0:2017](#) 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 60079-7:2017](#) 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 component listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[US/UL/ExTR09.0001/00](#)
[US/UL/ExTR09.0001/03](#)

[US/UL/ExTR09.0001/01](#)

[US/UL/ExTR09.0001/02](#)

Quality Assessment Report:

[US/UL/QAR08.0003/11](#)



IECEX Certificate of Conformity

Certificate No.: **IECEX UL 09.0001U**

Page 3 of 4

Date of issue: 2023-11-16

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

The Cat. No. EBT contact block consists of increased safety terminals and a flameproof housing. The contact housing is made from an polyamide resin, the terminals are nickel-plated brass, and the stroker shaft and bushing are stainless steel. The contact block is intended to be mounted inside a suitable flameproof or increased safety enclosure and designed for use with various operators.

Please see Annex for additional information.

SCHEDULE OF LIMITATIONS:

- Contact block must be mounted to a suitable rigid surface using the mounting means required.
- Contact block must be installed in a suitable 'Ex db' flameproof or 'Ex eb' increased safety enclosure.
- Contact block must be mounted to provide a minimum of 10 mm clearance to any conductive surfaces.
- All power is to be shut off before disconnecting the conductors from the terminals.
- Contact block will accommodate wire sizes from 22 AWG (0.5 mm²) to 12 AWG (4 mm²), with a maximum of two conductors per termination. Strip wire insulation 10-12 mm. Tighten terminal screws 7 to 10 in-lbs.
- The maximum operating temperature on the contact block was 73 °C at a 60 °C ambient.
- For ambient temperatures below -10 °C, use field wiring suitable for both minimum and maximum ambient temperature.
- Flameproof Joint Parameters:
 - Cylindrical joint between the shaft and shaft bushing: Length - 7.68 mm
 - Spigot Joint between the contact body and cover: Cylindrical Portion Length - 6.32 mm



IECEX Certificate of Conformity

Certificate No.: **IECEX UL 09.0001U**

Page 4 of 4

Date of issue: 2023-11-16

Issue No: 3

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1: The EBT contact block was updated to the most current editions of the standards.

Issue 2: Updates editions of Standards from IEC 60079-0, 6th to 7th; IEC 60079-1, 6th to 7th and IEC 60079-7, 4th to 5.1.

Issue 3: New non-metallic material for contact block cover and base.

Annex:

[Annex to IECEx UL 09.0001U Issue 3.pdf](#)



IECEX Certificate of Conformity

Annex to Certificate No.:

IECEX UL 09.0001U

Issue No.: 3

Page 1 of 1

PARAMETERS RELATING TO THE SAFETY


600 V AC/300 V DC, max. 10 A


MARKING

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

ADALET CAT NO: **EBT** A600 AC Q300 DC
4801 WEST 150TH STREET, CLEVELAND, OHIO 44135 USA

Class I, Division 2, Groups A,B,C,D
Class I Zone 1, AEx db eb IIC T6 Gb $-55^{\circ}\text{C} \leq \text{Tamb} \leq +60^{\circ}\text{C}$
Ex db eb IIC T6 Gb $-55^{\circ}\text{C} \leq \text{Tamb} \leq +60^{\circ}\text{C}$
IECEX Ex db eb IIC Gb $-55^{\circ}\text{C} \leq \text{Tamb} \leq +60^{\circ}\text{C}$
IECEX UL.09.0001U

0539  II 2 G Ex db eb IIC Gb
 $-55^{\circ}\text{C} \leq \text{Tamb} \leq +60^{\circ}\text{C}$
DEMKO 09 ATEX 0821714U YEAR


LISTED 437S
IND. CONT. EQ.
FOR USE IN
HAZARDOUS LOCATIONS

8062B

ROUTINE EXAMINATIONS AND TESTS

Each piece of equipment defined above has to have successfully passed before delivery:

- Routine tests according to IEC 60079-1 cl. 16 are not required, as the contact block has been successfully tested to the overpressure requirements in Clause 15.1.3.1 for small volumes.
- A routine dielectric test according to IEC 60079-7, Clause 7.1, is required on the Cat. No. EBT contact block on a statistical basis according to ISO 2859-1 with an acceptance quality limit (AQL) of 0.04. The Cat. No. EBT contact block shall withstand the test voltage of 2640 V r.m.s for 100 ms without dielectric breakdown occurring.