



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 09.0002U issue No.:3
Status: Current
Date of Issue: 2015-07-30 Page 1 of 4

Certificate history:
Issue No. 3 (2015-7-30)
Issue No. 2 (2014-12-29)
Issue No. 1 (2011-4-28)
Issue No. 0 (2009-10-12)

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

Electrical Apparatus: **Pushbutton and Selector Switch Operators**
Optional accessory:

Type of Protection: **Flameproof "d", Increased Safety "e", Protection by Enclosure "tb"**

Marking: Ex d e IIC Gb
Ex tb IIIC Db IP66
 $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$

*Approved for issue on behalf of the IECEx
Certification Body:*

Paul T. Kelly

Position:

Principal Engineer - Global Hazardous Locations

*Signature:
(for printed version)*

Date:

2015-07-30

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 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 : 2007-04 Edition: 6 | Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d" |
| IEC 60079-31 : 2008 Edition: 1 | Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t" |
| IEC 60079-7 : 2006-07 Edition: 4 | Explosive atmospheres - Part 7: Equipment protection by increased safety "e" |

*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/ExTR09.0002/00](#)
[US/UL/ExTR09.0002/03](#)

[US/UL/ExTR09.0002/01](#)

[US/UL/ExTR09.0002/02](#)

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 E-Series pushbutton and selector switch operators are intended for connection to the Cat. No. EBT contact block via a mounting bracket manufactured by Adalet and intended to be mounted in an increased safety enclosure. The pushbuttons come in a metallic flat-head version in black, green, or red, a metallic mushroom-head version in black or red, and a mushroom-head push-pull version in red. The selector switches have a plastic knob and come in two-position, three-position, and spring-return keyed and non-keyed (knob) versions.

Please see Annex for additional details and Schedule of Limitations.

CONDITIONS OF CERTIFICATION: NO



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

Issue 1: Updated drawings and nomenclature to reflect the addition of the Lexan Cover. Added a Condition for Safe Use. Also, evaluated Push Button and Selector Switches to IEC 60079-31.

Issue 2: The E Series devices are updated to the latest versions of the standards and the ambient range was modified to -40°C on the low end from -55°C to account for gasket COT ranges.

Issue 3: Updated drawings with the correct gasket parameters.

Annex to IECEx UL 09.0002U Issue 2

Nomenclature for E-Series Pushbuttons:

| | |
|-------------------|------------------|
| <u>EHP</u> | <u>BM</u> |
| I | II |

I – Pushbutton Series

EHP – Series Designation

II – Pushbutton Version

B – Metallic flat-head in black, green, or red

BM – Metallic mushroom-head in black or red

PM – Metallic mushroom-head push-pull head in red

PLC – Metallic flat-head in black, green, or red, with pad-lockable Lexan cover

Nomenclature for E-Series Selector Switches:

| | | | |
|------------------|-----------------|------------------|------------------|
| <u>EH</u> | <u>S</u> | <u>R2</u> | <u>LC</u> |
| I | II | III | IV |

I – Selector Switch Series

EH – Series Designation

II – Selector Switch Version

S – Knob Selector Switch

KS – Keyed-Selector Switch

III – Position Details

S – Two-position or three-position, no spring return

C – Three-position, spring return center from right and left

R – Three-position, spring return center from right, maintain left

R2 – Two-position, spring return to left from right

L – Three-position, spring return center from left, maintain right

L2 – Two-position, spring return to right from left

IV – Cover Option

LC – Lexan Padlockable Cover

Blank – No Cover Provided

Schedule of Limitations:

- Device must be mounted on a flat surface in a suitable 'Ex e' increased safety enclosure and installed in accordance with installation instructions DS842, DS843, DS845, or DS847.
- To maintain IP66 rating and/or Dust protection method 'tb', a minimum of two gaskets must be installed in accordance with applicable installation instructions DS842, DS843, DS845, or DS847.
- For use with the Cat. No. EBT contact block.
- The Cat. No. EBT contact block will accommodate wire sizes from 22 AWG (0.5 mm²) to 12 AWG (4 mm²), with a maximum of two wires per terminal. Strip wire insulation 10-12 mm. Tighten terminal screws 7 to 10 in-lbs.
- The Cat. No. EBT contact block must be mounted to provide a minimum of 10 mm clearance to any conductive surfaces.
- When used with the Cat. No. EBT contact block, the device reaches a maximum temperature of 73°C corresponding to a temperature code of T6.
- All power is to be shut off before connecting/disconnecting the conductors from the terminals.
- For ambient temperatures below -10°C, use field wiring suitable for the minimum ambient temperature.
- If using optional padlockable cover, ensure that the equipment is not installed in a location where it may be subjected to conditions which would allow for the build-up of electrostatic charge. These covers must only be cleaned with a damp cloth.