

EU-TYPE EXAMINATION CERTIFICATE



Component intended for use on/in Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

EU-Type Examination Certificate Number: **DEMKO 16 ATEX 1706U Rev. 2**

Component: **Enclosures, XCEX and XCESX Series**

Manufacturer: **Adalet/Scott Fetzer Co.**

Address: **4801 W. 150th Street, Cleveland, OH 44135 USA**

This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

UL International Demko A/S, notified body number 0539 in accordance with Article 17 of the Council Directive 2014/34/EU of the European Parliament and the Council, dated 26 February 2014, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to design and construction of components intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. **US/UL/ExTR16.0092/02.**

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018

EN 60079-1:2014

EN 60079-31:2014

The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

This EU-Type Examination Certificate relates only to the design and construction of the specified component. Further requirements of the Directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.

The marking of the component shall include the following:

II 2 G **Ex db IIB+H2 Gb**

II 2 D **Ex tb IIIC Db IP66**

Certification Manager
Jan-Erik Storgaard

This is to certify that the sample(s) of the Component described herein ("Certified Component") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the component sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured component. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all products to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2016-06-08

Re-issued: 2021-11-30

Notified Body

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Schedule

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Description of Component:

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.

Temperature range

The service temperature range is -20 °C to +60 °C.

Installation instructions

Unused apertures shall be closed with suitable blanking elements.

Routine tests

Routine overpressure tests in accordance with EN 60079-1:2014 shall be conducted on all units of the XCEX 323612 model in accordance with clause 16.1.2, at a pressure of 11.3 bar for a duration of not less than 10 seconds. There shall be no sign of damage, deformation or rupture that will invalidate the concept of protection.

Routine tests according to EN 60079-1 cl. 16.1.2 are not required for all other XCEX and XCESX models, as the enclosures have been successfully tested at four times the reference pressure.

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Descriptive Documents

The scheduled documents are listed in the report no. provided under item no. [8] on page 1 of this EU-Type Examination Certificate.

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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 installed inside the enclosure:
 - Batteries, cells, or any other item liable to be a source of release.
 - Rotating machinery, or other devices which create turbulence, shall not be incorporated.
 - Liquid of any kind, including oil filled circuit breakers or contactors
 - Radiating equipment (i.e., lasers, continuous wave sources and ultrasonic wave sources.
- 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 gas group and 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.

For without dust 'tb' rating the following Schedule of Limitation applies:

* All unused openings must be fitted with certified flameproof blanking elements that have a flameproof 'db' and have a minimum gas group and IP 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' and have a minimum IP66 rating equal to the marking on the enclosure.

*** 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' and have a minimum IP66 rating equal to the marking on the enclosure.



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Schedule

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Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9

Additional information

The XCEX and XCESX series of enclosures, except for the XCEX 041604 model, has in addition passed the tests for Ingress Protection to IP66 in accordance with EN60529:1991+A1:2000+A2:2013.



The trademark  will be used as the company identifier on the marking label.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in Annex III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.

