

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 09 ATEX 0821714U Rev. 2**

Component: **Contact Block, Cat. No. EBT**

Manufacturer: **Adalet/Scott Fetzer Company**

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 Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report no. **US/UL/ExTR09.0001/03**.

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

EN IEC 60079-0:2018

EN 60079-1:2014

EN IEC 60079-7:2015/A1:2018

Where additional criteria beyond those given here have been used, they are listed at item 18 in the Schedule.

The sign "U" placed behind the certificate number indicates that this certificate should not be confused with certificates issued for equipment or protective systems. This partial certification may be used as a basis for certification of an equipment or protective systems. "Schedule of limitations" is listed under item 17 of this certificate.

This EU-Type Examination Certificate relates only to the technical design of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by the certificate.

The marking of the product shall include the following (marking is provided in the Schedule as a part of item 15, if applicable):

Ex II 2 G Ex db eb IIC Gb

Certification Manager
Thomas Wilson

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: 2009-07-15

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Notified Body

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Schedule

EU-TYPE EXAMINATION CERTIFICATE No.

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[15] Description of Component:

The contact block, Cat. No. EBT consists of increased safety terminals and a flameproof housing. The contact housing is made from a 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.

Temperature range

The ambient temperature range is -55°C to +60°C.

Electrical data

Voltage: 600 V AC/ 300 V DC (A600 AC/Q300 DC)

Current: max. 10 A

Routine tests

Routine tests according to EN 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 EN 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.

[16] 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.

[17] 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 wires per terminal. 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 temperature.
- For ambient temperatures below -10°C, use field wiring suitable for the minimum ambient temperature.
- Flameproof Joint Parameters:
Cylindrical joint between the shaft and shaft bushing: Length - 7.68 mm and
Spigot Joint between the contact body and cover: Cylindrical Portion Length - 6.32 mm.

[18] Essential Health and Safety Requirements

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

Additional information

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.