

# EU-TYPE EXAMINATION CERTIFICATE



[1]

[2]

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

[3]

EU-Type Examination Certificate Number: **DEMKO 11 ATEX 1005210U Rev. 3**

[4]

Component: **Push-To-Test Illuminated Pilot Lights, ELP-Series**

[5]

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

[6]

Address: **4801 W. 150<sup>th</sup> Street, Cleveland, OH 48135 USA**

[7]

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

[8]

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. **4789255419.1.1**

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

**EN 60079-0:2012+A11:2013    EN 60079-1:2014    EN 60079-7: 2015 +A1:2018  
EN 60079-18:2015+ A1:2017    EN 60079-31:2014**

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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.

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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.

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The marking of the component shall include the following:

 **II 2 G    Ex db eb mb IIC Gb**

 **II 2 D    Ex tb IIIC Db**

**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:** 2011-04-28

**Re-issued:** 2019-12-16

**Notified Body**

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## Schedule

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### Description of Component:

The ELP-Series push-to-test pilot lights are intended for connection to the Cat. No. EBT contact block via a mounting bracket, both manufactured by Adalet, and intended to be mounted in an increased safety enclosure. The pilot light comes in 120 V, 12 V, or 24 V AC/DC versions, with a single LED and an amber, green, red, or white cap. The LEDs are encapsulated through the base of the pilot light. The pilot light has an AL 6061 T6 metallic body and a Lexan 103 or 143 plastic cap.

Nomenclature for ELP-Series Pilot Lights:

**ELP**                      **A**                      **120**  
**I**                              **II**                              **III**

**I** – Push-To-Test Pilot Light Series  
ELP – Series Designation

**II** – Pilot Light Cap Color

A – Amber  
G – Green  
R – Red  
W – White

**III** – Voltage Option

120 – 120 V AC/DC  
12 – 12 V AC/DC  
24 – 24 V AC/DC

Temperature range

The ambient temperature range is -40 °C to +60 °C.  
The service temperature range is -40°C to +90°C.

### Electrical data

120 V AC/DC, 1.53 W  
12 V AC/DC, 0.31 W  
24 V AC/DC, 0.58 W

### Routine tests

A visual inspection of the encapsulant is required per Clause 9.1 of EN 60079-18. No damage shall be evident such as cracks, exposure of the encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition or failure in adhesion or softening.

A routine dielectric test according to EN 60079-18, Clause 9.2, is required on the ELP-Series pilot lights. The devices shall withstand 1500 V r.m.s. for at least 1 second or 1800 V r.m.s. for 100 ms without dielectric breakdown or arcing occurring.

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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:

- Device must be mounted on a flat surface in a suitable 'Ex eb' increased safety enclosure and installed in accordance with installation instructions DS848.
- To maintain IP66 rating and/or dust protection method 'tb', a minimum of three gaskets must be installed in accordance with applicable installation instructions DS848.
- 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.
- The water absorption test per Clause 8.1 of EN 60079-18 has not been performed on this device due to the encapsulant being housed entirely within the pilot light cap and body.
- Only for use with the Cat. No. EBT contact block. One block provided as standard.
- The Cat. No. EBT contact block will accommodate wire sizes from 22 AWG (0.5 mm<sup>2</sup>) to 12 AWG (4 mm<sup>2</sup>), with a maximum of two wires per terminal. Strip wire insulation 10-12 mm. Tighten terminal screws 7 to 10 in-lbs. (0.8 to 1.2 N-m).
- 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.
- During installation, wire leads from the LED circuit may be terminated on the EBT contact block or may utilize appropriate crimping or soldering facilities.

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[14]

**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 ELP Series Pilot Lights have in addition passed the tests for Ingress Protection to IP 66 in accordance with EN60529:1991+A1:2000+A2:2013.

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.