[1] # EU-TYPE EXAMINATION CERTIFICATE

[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 09 ATEX 146638U Rev. 1**

[4] Component: **E-Series Pilot Lights**

[5] Manufacturer: **Adalet/Scott Fetzer Co.**

[6] Address: **4801 W. 150th Street, Cleveland, OH 44135 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. **4788090119.4.1**

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

EN 60079-0:2012+A11:2013
EN 60079-18:2015
EN 60079-7:2015
EN 60079-31:2014

[10] 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.

[11] 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.

[12] The marking of the component shall include the following:

II 2 G Ex eb mb IIC Gb - ELT Series

II 2 G Ex mb IIC Gb - EL Series

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: 2009-09-04
Re-issued: 2018-11-02

Notified Body
UL International Demko A/S, Ballerup 5A, 2750 Ballerup, Denmark
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[13] [14]

Schedule
EU-TYPE EXAMINATION CERTIFICATE No.
DEMKO 09 ATEX 146638U Rev. 1

[15] Description of Component:

The E-Series pilot lights are 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 maximum of 7 LEDs, and an amber, green, red, or white cap. Lead wires are directly soldered to the LED lamp assembly. The LEDs are encapsulated through the base of the pilot light. The pilot light has an AL 6061-T6 metallic body and a Lexan 101, 103, or 143 plastic cap.

Nomenclature for E-Series Pilot Lights:

EL	A	T	120
I	II	III	IV

I – Pilot Light Series
EL – Series Designation

II – Pilot Light Color
A – Amber
G – Green
R – Red
W – White

III – Terminal Block
T – Pilot lights are provided with terminal block
Blank – Pilot lights are provided with leads

IV – Voltage Option
120 – 120 V AC/DC
12 – 12 V AC/DC
24 – 24 V AC/DC

Temperature range
The ambient temperature range is -34 °C to +60 °C.

The service temperature range is -34 °C to +90 °C.

Electrical data

120 V AC/DC, 1.2 W
12 V AC/DC, 0.6 W
24 V AC/DC, 0.6 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, failure in adhesion or softening.

A routine dielectric test according to EN 60079-18, Clause 9.2, is required on the E-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.

[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:

- Device must be mounted on a flat surface in a suitable 'Ex e' increased safety enclosure and installed in accordance with installation instructions DS844.
- The device reaches a maximum temperature of 76 ˚C corresponding to a temperature code of T6.
- To maintain IP66 rating and/or Dust protection method 'tD', a minimum of one gasket must be installed in accordance with applicable installation instructions DS844.
- 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.

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

Additional information
The E-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.

