[1] # EC-TYPE EXAMINATION CERTIFICATE

[2] **Component intended for use on/in equipment or protective system intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**

[3] EC-Type Examination Certificate Number: **DEMKO 09 ATEX 146638U Rev. 0**

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

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

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

[7] This Component 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 9 of the Council Directive 94/9/EC of 23 March 1994, 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. **11NK12108**

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

EN 60079-0: 2006 **EN 60079-7: 2007** **EN 60079-18: 2004**
EN 61241-0: 2006 **EN 61241-1: 2004**

[10] The sign "U" placed after the certificate number 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 EC-Type examination certificate relates only to the design, examination and tests of the specified component in accordance with the Directive 94/9/EC. 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:

Ex II 2 G Ex mb IIC **Ex II 2 G Ex e mb II**

Ex II 2 D Ex tD A21 IP66 T125ºC

Certification Manager
Jan-Erik Storgaard

This certificate may only be reproduced in its entirety and without any change, schedule included.

Date of issue: 2009-09-04
Re-issued: 2011-10-31

Notified Body UL International Demko A/S, Ballerup 5A, 2750 Ballerup, Denmark
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Schedule
EC-TYPE EXAMINATION CERTIFICATE No.
DEMKO 09 ATEX 146638U Rev. 0
Report: 11NK12108

[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 7LEDs, 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 6061T6 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 -55 °C to +60 °C.

Electrical data
120 V AC/DC, 1.2 W
12 V AC/DC, 0.6 W
24 V AC/DC, 0.6 W

Installation instructions
See special conditions of safe use.

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
Project Report No.: 11NK12108 (Hazardous Location Testing)

Documents:

Description:	Document No.:	Rev. Level:	Date:
E-Series Pilot Lights w/Leads Options and Approvals	DS817	B	2011-09-13
E-Series Pilot Lights w/Leads Installation Instructions	DS844	A	2009-08-14
E-Series Pilot Light Nameplate	8061	A	2009-08-14
E-Series Pilot Lights w/Terminal Block and Approvals	DS854	B	2011-09-13
E-Series Pilot Lights w/Terminal Block Installation Instructions	DS846	A	2009-12-16
E-Series Pilot Lights with Terminal Block Nameplate	8100	A	2009-12-16
Terminal Block	8036	C	2009-12-16

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Schedule
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[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

Concerning ESR this Schedule verifies compliance with the ATEX directive only. The manufacturer's Declaration of Conformity declares compliance with other relevant Directives.

Additional information

The E-Series pilot lights have in addition passed the tests for Ingress Protection to IP 66 in accordance with EN 60529:1991 + A1 2000.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX .I to Directive 94/9/EC of the European Parliament and the Council of 23 March 1994.