IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEx UL 14.0047U**

Certificate history:
Issue 2 (2019-07-29)
Issue 1 (2018-10-29)
Issue 0 (2015-01-22)

Status: **Current**

Issue No: 3

Date of Issue: 2020-08-27

Applicant: **Killark, A Division of Hubbell Inc. (Delaware)**
2112 Fenton Logistics Park Blvd.
Fenton, MO 63026
United States of America

Ex Component: HKH Series Pilot Lights

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **Flameproof "db" Increased Safety "eb"**

Marking: Ex db eb I Mb

Ex db eb IIC Gb

Approved for issue on behalf of the IECEx Certification Body: **Katy A. Holdredge**

Position: **Senior Staff Engineer**

Signature: (for printed version)

Date: 2020-08-27

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

UL LLC
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America

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Date of issue: 2020-08-27 Issue No: 3

Manufacturer: **Killark, A Division of Hubbell Inc. (Delaware)**
2112 Fenton Logistics Park Blvd.
Fenton, MO 63026
United States of America

Additional manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

US/UL/ExTR14.0076/00 US/UL/ExTR14.0076/01 US/UL/ExTR14.0076/02
US/UL/ExTR14.0076/03

Quality Assessment Report:

GB/SIR/QAR16.0021/04

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Ex Component(s) covered by this certificate is described below:

This device is a pilot light with a non-metallic flameproof housing and metallic increased safety terminals. The pilot light is intended to be entirely mounted within a suitable enclosure.

Please see Annex for additional information.

SCHEDULE OF LIMITATIONS:

- The non-metallic pilot light body was tested for a maximum service temperature of 73°C. It shall not attain a temperature of more than 73°C when used in service. The devices were tested for a minimum service temperature of -50 ˚C.
- Contact the manufacturer for information on the dimensions of flameproof joints.
  Installation Instructions:
  - Device must be mounted in a Group I and/or Group II, ‘Ex eb’ increased safety enclosure with a minimum IP54 rating or and ‘Ex db/tb’ flameproof/dust enclosure with a minimum IP 64 rating, where the suitability is determined in the end application.
  - The pilot light shall be mounted to provide a minimum clearance of 5.0 mm and a minimum creepage of 8.0 mm.
  - All power is to be shut off before connecting/disconnecting the conductors at the device terminals.
  - All conductors shall be suitable for the minimum ambient and maximum temperature achieved in service.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Issue 1: Updated to the latest edition of standards and drawing revisions.

Issue 2: Address change.

Issue 3: Adding alternate sealing compound WEVO PUR 403FL/44 in cemented joint.

Annex:

Annex to IECEx UL 14.0047U Issue 3.pdf

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Certificate No.: IECEx UL 14.0047U

Issue No.: 3

TYPE DESIGNATION

Nomenclature for type HKH Pilot Light:

HKHPLD: Does not contain a mounting clip.

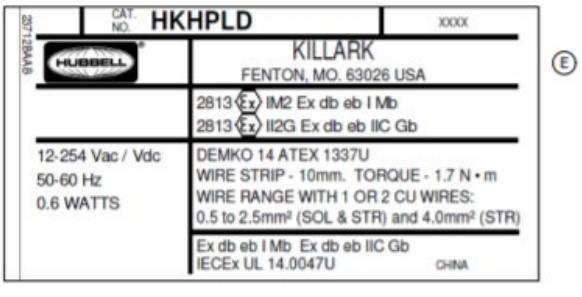
HKHPLP: Does contain a mounting clip and has terminals flipped over to access the wire connector screw.

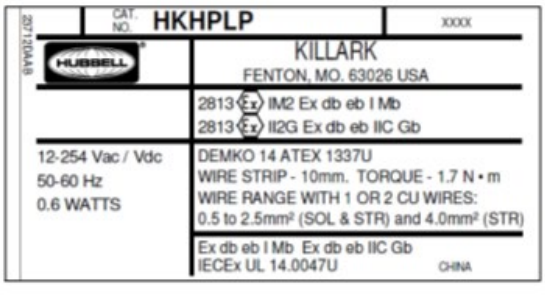
PARAMETERS RELATING TO THE SAFETY

12-254 Vac/Vdc, 50-60 Hz, 0.6 W

MARKING

Marking has to be readable and indelible; it has to include the following indications:





ROUTINE EXAMINATIONS AND TESTS

A routine dielectric test according to IEC 60079-7, Clause 7.1, is required on the pilot light on a statistical basis according to ISO 2859-1 with an acceptance quality limit (AQL) of 0.04. The device shall withstand the test voltage of 1810 V r.m.s for 100 ms without dielectric breakdown occurring. As an alternative to the above test, the pilot light shall withstand the test voltage of 1508 V r.m.s for 1 minute without dielectric breakdown occurring.