

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 14 ATEX 1400U Rev. 4**

[4]

Component: **HKH Series Actuators, Pilot Light Lens Covers, and Plugs**

[5]

Manufacturer: **Killark, A Division of Hubbell Inc. (Delaware)**

[6]

Address: **2112 Fenton Logistics Park Blvd., Fenton, MO 63026 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. **4788950730.4.1**

[9]

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

**EN 60079-0:2012+A11:2013
EN 60079-31:2014**

EN 60079-7:2015

[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.

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The marking of the component shall include the following:

 **II 2 G Ex eb IIC Gb**

 **II 2 D Ex tb IIIC Db**

Certification Manager
Jan-Erik Storgaard

Notified Body

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: 2015-07-23

Re-issued: 2019-07-31



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Schedule
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[15] Description of Component:
The HKH series actuators include mushroom head pushbutton actuators, pushbutton actuators, rotary selector switch actuators, keyed rotary selector switch actuators, and rocker switches. They are intended for connection to Killark's HKH series contact block and intended to be mounted in a suitable enclosure. In addition, the HKH series cover plug and pilot light lens are intended to be mounted in a suitable enclosure. The devices are non-metallic, except for metallic screw used to maintain the assembly of the devices.

Nomenclature for Mushroom Head Pushbuttons Assembly:

HKH PBPMTMR
I II

I – Actuator Series
HKH – Series Designation

II – Mushroom Head Maintained Contact Push-Pull Version
PBPMTMR – Pull-Release Red
PBPMTMG – Pull-Release Green
PBPMTMB – Pull-Release Black

II – Momentary Pushbutton Version
PBMMMR – Red
PBMMMG – Green
PBMMMB – Black

II – Keyed Maintained Mushroom Head Version
PBKMTMRH – Keyed Red Mushroom – Horizontal Key Slot
PBKMTMRV – Keyed Red Mushroom – Vertical Key Slot

II – Maintained Pushbutton Version
PBTMTMR – Twist Release Red Mushroom

Nomenclature for Pushbutton:

HKH PBMMSS
I II

I – Actuator Series
HKH – Series Designation

II – Momentary Pushbutton Version
PBMMSS – With Green Start and Red Stop Disc, Green (I), Red (O), or Black blank disc
DBLPBMMGR – Double Pushbutton with Green (I), Red (O), Green, Red and Black Blank Disc
PBILLMM – Illuminated 2-Contact Momentary Pushbutton (offered in several lens colors)
PBMMTC – 3-Contact Momentary Pushbutton, supplied with four discs, green start, green, red stop, and red

Nomenclature for Rotary Selector Switch Actuator:

HKH 2PS MTH
I II III

I – Actuator Series
HKH – Series Designation

II – Rotary Selector Switch – Style and Positions
2PS – 2 Positions
3PS – 3 Positions

III – Directions of Switch
MTH – Maintained contact, horizontal
MTV – Maintained contact, vertical
MMRH – Momentary right contact, horizontal
MMRV – Momentary right contact, vertical
MTIH – Maintained contact independent cam, horizontal
MTIV – Maintained contact independent cam, vertical
MMRH – Momentary right, maintained left/center independent cam, horizontal
MMRV – Maintained left/center, momentary right independent cam, vertical
MMLH – Momentary left, maintained center/right, independent cam, horizontal
MMLV – Momentary left, maintained center/right, independent cam, vertical
MMLRH – Momentary left/right, maintained center, independent cam, horizontal
MMLRV – Momentary left/right, maintained center, independent cam, vertical

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Nomenclature for Keyed Rotary Selector Switch Actuator:

HKH 2PS KH
I II III

I – Actuator Series
HKH – Series Designation

II – Rotary Selector Switch- Style and Positions
2PS – 2 Positions
3PS – 3 Positions

III - Directions of Switch
KH – 2 Position Maintained and Momentary, Horizontal
KV – 2 Position Maintained and Momentary, Vertical
KIH – 3 Position Maintained and Momentary, Horizontal
KIV – 3 Position Maintained and Momentary, Vertical

Nomenclature for Pilot Light Lens Cover:

HKH PLR
I II

I – Pilot Light Lens Cover Series
HKH – Series Designation

II – Lens Cover Designation
PLR – Red
PLG – Green
PLA – Amber
PLC – Clear
PLB – Blue

Nomenclature for Close-Up Plug:

HKH CP
I II

I – Series Designation
HKH – Series Designation

II – Plug
CP – Unused cover opening close up plug

Nomenclature for Two-Pole Rocker Switch:

HKH RKRSWT
I II

I – Series Designation
HKH – Series Designation

II – Directions of Switch
RKRSWT - Two-Pole Maintained Rocker Switch

Temperature Range

The ambient temperature range is -50 °C to +60 °C.
The service temperature range is -50 °C to +85 °C.

Electrical data

When used with HKH Series Contact Block:
690Vac, 20A, 50-60Hz
60Vdc, 5A, 110Vdc, 2A, 255Vdc, 1.5A
½ HP @120Vac, 1 HP @208/240/277Vac
A600/P600 – Pilot Duty
350Vac – Tungsten Lamp

When used with HKH Series Pilot Light:
12-250Vac/Vdc, 50-60Hz
0.6 Watts

Installation Instructions

- Actuators, pilot light lens covers, and close-up plugs shall be installed in a minimum IP54 rated enclosure where the suitability is determined in the end use application.
- To maintain IP66 rating and/or dust protection method 'tb', the sealing gasket must be installed in accordance with applicable installation instructions.

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Schedule

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Routine tests

N/A

[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:

- Actuators are for use with the HKH series contact blocks.
- The devices were tested for a maximum service temperature of 85°C. The equipment shall not attain a temperature of more than 85°C in use.
- The electrical requirements need to be evaluated in the end use.

Additional information

The auxiliary devices have in addition passed the tests for Ingress Protection to IP 66 in accordance with EN60529:1991+A1:2000+A2:2013.



The trademark **KILLARK** will be used as the company identifier on the marking label.

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.