



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

EX COMPONENT CERTIFICATE

| | | | |
|------------------|--|-------------|---|
| Certificate No.: | IECEX UL 15.0111U | Issue No: 2 | Certificate history: |
| Status: | Current | Page 1 of 4 | <u>Issue No. 2 (2019-07-31)</u> Issue No. 1 (2015-12-07) Issue No. 0 (2015-10-30) |
| Date of Issue: | 2019-07-31 | | |
| Applicant: | Killark, A Division of Hubbell Inc. (Delaware) 2112 Fenton Logistics Park Blvd. Fenton, MO 63026 USA United States of America | | |
| Ex Component: | HKH Series E-Stops | | |

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", Dust Ignition Protection by Enclosure "tb"**

Marking:

Ex db eb IIC Gb

Ex tb III C Db IP66

-50°C ≤ Ta ≤ +60°C

Approved for issue on behalf of the IECEx
Certification Body:

Katy A. Holdredge

Position:

Senior Staff Engineer

Signature:
(for printed version)

Date:

2019-07-31

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

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





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

Additional Manufacturing location(s):

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 Component 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 Ex Component 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 Edition:7.0 | Explosive atmospheres - Part 0: Equipment - General requirements |
| IEC 60079-1 : 2014-06 Edition:7.0 | Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d" |
| IEC 60079-31 : 2013 Edition:2 | Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t" |
| IEC 60079-7 : 2017 Edition:5.1 | Explosive atmospheres - Part 7: Equipment protection by increased safety "e" |

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

TEST & ASSESSMENT REPORTS:

A sample(s) of the Ex Component listed has successfully met the examination and test requirements as recorded in

Test Report:

[US/UL/ExTR15.0127/02](#)

Quality Assessment Report:

[GB/SIR/QAR16.0021/02](#)



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Schedule

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

These open type E-stop devices are constructed out of HKH Series Contact Blocks with HKH Series Mushroom Head Pushbuttons with a yellow legend nameplate. These devices come in two different forms: Solid Plunger HKH Contact Blocks that are only for use with HKH Series Stainless Steel or HKH Series Polymeric Enclosures. The Hollow Plunger HKH Contact Blocks may be used with any type 'e' enclosure with at least an IP54 rating.

Please see Annex for additional information.

SCHEDULE OF LIMITATIONS:

- Contact the manufacturer for information on the dimensions of flameproof joints.
- The #3-28 x 0.320 in. contact block housing fasteners have a minimum yield strength of 210 MPa for stainless steel or 340 MPa for steel.
- E-stops must be mounted on a flat surface in a suitable 'Ex e' increased safety enclosure and installed in accordance with installation instructions.
- To maintain IP66 rating and/or dust protection method 'tb', the sealing gasket must be installed in accordance with applicable installation instructions.
- 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.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 1: Correcting typos on certificate.

Issue 2: Updates standards to latest versions. Updates address of manufacturer.

Annex:

[Annex to IECEX UL 15.0111U Issue 2.pdf](#)



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TYPE DESIGNATION

Nomenclature for "Open-Type" Series HKH E-Stops:

HKH Component E-Stop Assemblies (For Use in Series HKH Enclosures) :

| | | | | |
|-----|----|-----|----|---|
| I | II | III | IV | V |
| HKH | D | PBP | 3 | E |

I – Product Series

HKH Haz. Loc. E-Stop Assemblies (provided with "Solid-Plunger" HKH Contact Blocks)

II – Contact Block Mounting Method

D - DIN-rail mount

P - Panel mount

III – Operator

PBP - Red Mushroom Head Pushbutton, Maintained

PBT - Red Mushroom Head Pushbutton, Maintained Twist-to-Release

IV - Contact Configuration

1 - (1) NO w (1) NC

3 - (1) NC

5 - (2) NC

V - Legend Plate

E - Yellow, Emergency Stop

HKH Component E-Stop Assemblies (Panel-Mount only, For Use in ANY Certified Enclosure) :

| | | | | |
|-----|---------|-----|----|----|
| I | II | III | IV | V |
| HKH | PBPMTMR | 3 | E | L1 |

I – Product Series

HKH Panel-Mount Haz. Loc. E-Stops (provided with "Hollow-Plunger" HKH Contact Blocks)

II – Operator



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PBPMTMR - Red Mushroom Head Pushbutton, Maintained
PBTMTMR - Red Mushroom Head Pushbutton, Maintained Twist-to-Release

III - Contact Configuration

- 1 - (1) NO w (1) NC
- 3 - (1) NC
- 5 - (2) NC

IV- Legend Plate

E - Yellow, Emergency Stop



V - Optional Accessories / Lockouts - may be any combination of single letters and/or digits

PARAMETERS RELATING TO THE SAFETY

690 Vac, 16 A, 50 to 60 Hz
230 Vdc, 16A, 50 to 60 Hz
125 Vdc, 1 A
60 Vdc, 5.0 A

MARKING

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

| | | | |
|--|----------------------------------|--|---|
|  Harsh & Hazardous WWW.HARSHANDHAZARDOUS.COM 2112 Fertton Logistics Park Blvd. FERTTON, MD, 20725, USA | CAT. NO. HKH DATE CODE | EMERGENCY STOP (ASSEMBLY) FOR USE IN ZONE CLASSIFIED HAZ. LOCS. CLASS I, ZONE 1, AEx db eb IIC Gb; Ex db eb IIC Gb U ZONE 21, AEx tb IIIC Db IP66; Ex tb IIIC Db IP66 U CLASS I, DIV.2, GRPS. A,B,C,D; CLASS II, DIV.1, GRPS. E,F,G (CANADA ONLY) CLASS II, DIV.2, GROUPS E,F,G; CLASS III TYPE 3/4/4X/12/13 -50°C ≤ Tamb ≤ +60°C |  |
|--|----------------------------------|--|---|

*NOTE: 'nnnn' REFERS TO NOTIFIED
BODY PROVIDING QUALITY

ROUTINE EXAMINATIONS AND TESTS

Any routine tests required are covered under certificate IECEX UL 12.0033U.