



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

Certificate No.:	IECEx UL 15.0054X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 4	Issue 3 (2020-01-17)
Date of Issue:	2021-09-30		Issue 2 (2018-02-28)
			Issue 1 (2016-07-14)
			Issue 0 (2015-11-24)
Applicant:	Killark, A Division of Hubbell Inc. (Delaware) 2112 Fenton Logistics Park Blvd. Fenton, MO 63026 United States of America		
Equipment:	Control Stations - HKH***** or HKHMOD*****		
Optional accessory:			
Type of Protection:	Flameproof "de", Increased Safety "eb", Encapsulation "mb", Dust Ignition Protection by Enclosure "tb"		
Marking:	Ex de IIC T6...T4 Gb Ex eb IIC T6...T4 Gb Ex eb mb IIC T6...T4 Gb Ex de mb IIC T6...T4 Gb Ex tb IIC T85°C...T135°C Db -50°C to +60°C -40°C to +55°C (when calotte or CZ0205 meter is installed)		

Approved for issue on behalf of the IECEx
Certification Body:

Lucy Frieders

Position:

Staff Engineer

Signature:
(for printed version)

Date:

2021-09-30

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.
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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 Hubbell Inc. (Delaware)**
2112 Fenton Logistics Park Blvd.
Fenton, MO 63026
United States of America

Additional manufacturing locations:

Hawke International A Division of Hubbell Limite
A Member of the Hubbell Group of Companies
Oxford Street West
Ashton-under-Lyne
Lancashire
OL7 0NA
United Kingdom

Hubbell Ltd T/A Chalmit Lighting, Victor Products and Transtar
388 Hillington Road
Glasgow
G52 4BL
United Kingdom

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 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

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/ExTR15.0063/00](#)
[US/UL/ExTR15.0063/03](#)

[US/UL/ExTR15.0063/01](#)

[US/UL/ExTR15.0063/02](#)

Quality Assessment Reports:

[GB/BAS/QAR06.0027/09](#)

[GB/BAS/QAR06.0061/09](#)

[GB/SIR/QAR16.0021/05](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The HKH Series Control Station are stainless steel or polymeric enclosures that can house a variety of Ex components, such as pilot lights, contact blocks, operators, E-Stops, and terminals.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- CZ0205 modules are intended to be installed as TS35*7.5 rail mounted or panel-mounted (mounting frame is screw-fixed to the enclosure cover). Dimensions of all models are 66mm x 66mm x 47.5mm.
- EXM Calotte covers must be installed per the manufacturer's instructions through the wall of a suitable IECEx certified enclosure. Note-mounting screw length is dependent upon enclosure wall thickness.
- The EXM Calotte viewing window frame presents a potential electrostatic hazard and shall be fitted to fixed installations only to allow it to comply with IEC 60079-0 Clause 7.4.2 e) and Clause 7.4.3 d). The polymeric frame shall only be cleaned with a damp cloth and sited away from any static charging methods (i.e.: near forced air movement or where they can easily be rubbed by passers-by).
- The EXM Calotte viewing window is intended for use when Series CZ0205 meters are installed.
- The ammeter and voltmeter modules must be mounted in suitable Ex enclosure and after installation must maintain the creepage and clearance distances as noted in IEC 60079-7, Clauses 4.3 and 4.4 and Table 1. Series CZ0205 meters shall be mounted to provide a minimum clearance of 10mm and minimum creepage of 16mm.
- Tightening torque of the CZ0205 meter wiring terminals is 1.2 Nm and the EXM mounting frame screw is 1.1 Nm.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1: Drawing updates.

Issue 2: Additional manufacturing location added.

Issue 3: Removes QAR US/UL/QAR07.0004 and adds QAR GB/SIR/QAR16.0021/03 . No update to the ExTR for this revision.

Issue 4: Updating of IEC 60079-0, 60079-1, 60079-7, and 60079-18 standards to most recent revisions. Minor updates to drawings and IOM.

Annex:

[Annex to IECEx UL 15.0054X Issue 4.pdf](#)



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TYPE DESIGNATION

Nomenclature for HKH Series Control Station:

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
HKH	1B	N	P	x	E	xx	3	x	xx	x	S

I – Product Series
HKH Series Control Stations

II – Enclosure Type/Size
1A - One Device
1B - One Device / Two Device
1C - Two Device / Three Device

III – Enclosure Material
N - Polymeric
S - 316 Stainless Steel (Inward Flange)
E - 316 Stainless Steel (Outward Flange)

IV - Contact Block / Pilot Light Mounting Method
D - DIN-rail mount
P - Panel mount

V - Cable Entry (optional)
x - Letter or Digit indicating size and location

VI - Earthing Plate (optional)
E - Brass Earthing Continuity Plate (Metric Only)

VII - Operator/ Meter
xx - Letter-Digit or Letter-Letter indicating HKH Series Actuator(s) and/or Series CZ0205 meter installed

VIII - Control Module
L - LED Lamp (Pilot Light)
1 - 1 NO / 1 NC
2 - 1 NO
3 - 1 NC
4 - 2 NO
5 - 2 NC



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- IX - Legend Plate (optional)
x - Letter or Digit
- X - Accessory Type (optional)
xx - Letter-Digit
- XI - Hub / Gland Designator (optional)
x - Letter or Digit
- XII - Earthing Stud Kit (optional)
S - Internal/External Earth Stud

Alternate Nomenclature

I	II	III
HKH	MOD	xxxxxx

- I – Product Series
HKH Series Control Stations
- II – Extended Catalog Number Designator
MOD – indicates the Standard Nomenclature exceeds 18 characters
- III – Dedicated Configuration Designator
xxxxxx – 1 to 6 characters indicating a specific component configuration

PARAMETERS RELATING TO THE SAFETY

Components utilized within control station:
Killark HKH Series Contact Blocks, E-Stops, and Operators:
AC690V, 16A, AC-12, 50-60Hz
AC230V, 16A, AC-15, 50-60Hz
DC60V, 5A, DC-13, 50-60Hz
DC125V, 1A, DC-13, 50-60Hz



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Killark HKH Series Pilot Light:

12 - 254 Vac/dc, 50/60Hz, 0.6 Watts

Weidmuller WDU and WPE 2.5 Series Terminal Blocks:

20A, 690 V

Weidmuller WDU and WPE 4 Series Terminal Blocks:

32 A, 690 V

ABB ZS4 Series Terminal Blocks:

32 A, 693 V

CZ 0205 Series Milliammeter

0-20/40 mA, 4-20/40mA; DC, AC 50/60 Hz

CZ 0205 Series Ammeter

0-1 A, 0-5A, 0-10A; AC 50-60 Hz

CZ 0205 Series Voltmeter

0-10V, 0-25V, 0-40V, 0-50V, 0-100V, 0-120V, 0-150V, 0-250V, 0-500V; AC 50/60 Hz

For a **T6** Temperature Code/**T85°C** Maximum Surface Temperature, the following electrical ratings are in effect:

Enclosure Size	Max. No. of CZ Meters	Maximum No. of HKH Contact Blocks	Max. No. of ABB ZS4 Terminal Blocks	Maximum No. of HKH Pilot Lights	Minimum Wire Size	Maximum Continuous Current Rating
2c	2	12	16	6	2 mm ² (14 AWG)	10 A
2a	1	8	16	4	2 mm ² (14 AWG)	10 A
1c	1	6	8	3	2 mm ² (14 AWG)	10 A
1b	1	4	6	2	2 mm ² (14 AWG)	10 A
1a	1	2	N/A	1	4 mm ² (12 AWG)	20 A



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For a **T5** Temperature Code/**T100°C** maximum Surface Temperature, the following electrical ratings are in effect (For Complete Control Stations with Pilot Lights only):

Enclosure Size	Max. No. of CZ Meters	Maximum No. of HKH Pilot Lights	Minimum Wire Size	Maximum Wattage Rating	Max. Continuous Current Rating
2c	2	6	0.5 mm ² (20 AWG)	0.6 Watts	20 A
2a	1	4	0.5 mm ² (20 AWG)	0.6 Watts	20 A
1c	1	3	0.5 mm ² (20 AWG)	0.6 Watts	20 A
1b	1	2	0.5 mm ² (20 AWG)	0.6 Watts	20 A
1a	1	1	0.5 mm ² (20 AWG)	0.6 Watts	20 A

For a **T4** Temperature Code/**T135°C** Maximum Surface Temperature, the following electrical ratings are in effect:

Enclosure Size	Max. No. of CZ Meters	Maximum No. of HKH Contact Blocks	Max. No. of ABB or Weidmuller Terminal Blocks	Maximum No. of HKH Pilot Lights	Minimum Wire Size	Maximum Continuous Current Rating
2c	2	12	16	6	4 mm ² (12 AWG)	20 A
2a	1	8	16	4	4 mm ² (12 AWG)	20 A
1c	1	6	8	3	4 mm ² (12 AWG)	20 A
1b	1	4	6	2	4 mm ² (12 AWG)	20 A



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MARKING


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

 Harsh & Hazardous WWW.HARSHANDHAZARDOUS.COM	CAT. NO. HKHMOD Series	DATE CODE-S/N
INDUSTRIAL CONTROL EQUIPMENT FOR USE IN ZONE CLASSIFIED HAZ. LOCS. CLASS I, ZONE 1, AEx db eb IIC T6...T4 Gb; Ex db eb IIC T6...T4 Gb ZONE 21, AEx tb IIIC T85°C...T135°C Db IP66; Ex tb IIIC T85°C...T135°C Db IP66 CLASS I, DIV.2, GRPS. A,B,C,D; CLASS II, DIV.1, GRPS. E,F,G (CANADA ONLY) CLASS II, DIV.2, GROUPS F,G; CLASS III CLASS III; TYPE 3/4/4X/12/13; -50°C ≤ Ta ≤ +60°C		FENTON, MO 63026 STAINLESS ENCL. ONLY CLASS II, DIV.1, GRPS. E,F,G CSA 17.70126964 US SEE IOM FORM K1466 FOR ELECTRICAL RATINGS.

24617AAAM - TO BE USED ON ALL CONTROL STATIONS

 Harsh & Hazardous WWW.HARSHANDHAZARDOUS.COM	CAT. NO. HKHMOD Series	DATE CODE-S/N
2813 II2G Ex db eb IIC T6...T4 Gb II2D Ex tb IIIC T85°C...T135°C Db IP66 DEMKO 15 ATEX 1405X Ex db eb IIC T6...T4 Gb; Ex tb IIIC T85°C...T135°C Db IP66 IECEx UL 15.0054X -50°C ≤ Ta ≤ +60°C (-40°C ≤ Ta ≤ +55°C WITH AMMETER) UL21UKEX2160X		FENTON, MO 63026 SEE IOM FORM K1466 & K1470 FOR T-CODES AND FOR ELECTRICAL RATINGS. Segurança UK CA Ex EAC INMETRO OCP 0064 IEx 16.0079X INMETRO

24617BAAM - TO BE USED WHEN CONTROL STATION INCLUDES AN HKH CONTACT BLOCK,
HKH PILOT LIGHT, WDU,WPE, OR Z54 TERMINAL BLOCKS - AND - A C20205 AMMETER

 Harsh & Hazardous WWW.HARSHANDHAZARDOUS.COM	CAT. NO. HKHMOD Series	DATE CODE-S/N
2813 II2G Ex db eb mb IIC T6...T4 Gb II2D Ex tb IIIC T85°C...T135°C Db IP66 DEMKO 15 ATEX 1405X Ex db eb mb IIC T6...T4 Gb; Ex tb IIIC T85°C...T135°C Db IP66 IECEx UL 15.0054X -40°C ≤ Ta ≤ +55°C UL21UKEX2160X		FENTON, MO 63026 SEE IOM FORM K1466 & K1470 FOR T-CODES AND FOR ELECTRICAL RATINGS. Segurança UK CA Ex EAC INMETRO OCP 0064 IEx 16.0079X INMETRO

24617CAAM - TO BE USED WHEN CONTROL STATION INCLUDES AN HKH CONTACT BLOCK OR
HKH PILOT LIGHT - AND - A C20205 VOLTMETER OR MILLIAMMETER




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Harsh & Hazardous WWW.HARSHANDHAZARDOUS.COM FENTON, MO 63026

2813 II2G Ex eb mb IIC T6...T4 Gb
II2D Ex tb IIIC T85°C...T135°C Db IP66
DEMKO 15 ATEX 1405X
Ex eb mb IIC T6...T4 Gb;
Ex tb IIIC T85°C...T135°C Db IP66
IECEx UL 15.0054X -40°C ≤Ta≤+55°C
UL21UKEX2160X


SEE IOM FORM K1466 & K1470
FOR T-CODES AND FOR ELECTRICAL RATINGS.

Segurança

UK CA **Ex EAC** **INMETRO** **IEC**

0518 TC RU C-US.MIO62.B.04176 IEx 16.0079X INMETRO

24617DAAM - TO BE USED WHEN CONTROL STATION INCLUDES ONLY SERIES WDU,WPE, OR Z54
TERMINAL BLOCKS - AND - A C20205 VOLTMETER OR MILLIAMMETER

 **CAT. NO. HKHMOD Series** **DATE CODE-S/N**

Harsh & Hazardous WWW.HARSHANDHAZARDOUS.COM FENTON, MO 63026

2813 II2G Ex eb IIC T6...T4 Gb
II2D Ex tb IIIC T85°C...T135°C Db IP66
DEMKO 15 ATEX 1405X
Ex eb IIC T6...T4 Gb;
Ex tb IIIC T85°C...T135°C Db IP66
IECEx UL 15.0054X -40°C ≤Ta≤+55°C
UL21UKEX2160X

SEE IOM FORM K1466 & K1470
FOR T-CODES AND FOR ELECTRICAL RATINGS.

Segurança

UK CA **Ex EAC** **INMETRO** **IEC**

0518 TC RU C-US.MIO62.B.04176 IEx 16.0079X INMETRO

24617EAAM - TO BE USED WHEN CONTROL STATION INCLUDES ONLY SERIES WDU,WPE, OR Z54
TERMINAL BLOCKS - AND/OR - C20205 AMMETER

LIST OF CERTIFIED COMPONENTS

The following additional previous editions of Standards noted under the "Standards" section of this Certificate were applied to integral Components as itemized below. There are no significant safety related changes between these previous editions and the editions noted under the "Standards" section.

Product	Certificate Number	Standards
HKH Series Contact Block:	IECEx UL 12.0033U	IEC 60079-0:2011 Edition:6.0 IEC 60079-1:2014-06 Edition:7.0 IEC 60079-7:2015 Edition:5.0
HKH Series Actuators, Pilot Light Lens Covers and Plugs:	IECEx UL 14.0104U	IEC 60079-0:2011 Edition: 6.0 IEC 60079-15:2010 Edition: 4 IEC 60079-31:2013 Edition: 2 IEC 60079-7:2015 Edition: 5.0
EXM Calotte Cover:	IECEx CQM 15.0035U	IEC 60079-0:2011 Edition: 6.0 IEC 60079-31:2013 Edition: 2 IEC 60079-7:2015 Edition: 5.0
CZ0205 Series Meters:	IECEx CQM 14.0034U	IEC 60079-0:2011 Edition: 6.0 IEC 60079-18:2009 Edition: 3 IEC 60079-7:2006-07Edition: 4