



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

Certificate No.: IECEx UL 15.0054X Issue No: 2 Certificate history:
Status: **Current** Issue No. 2 (2018-02-28)
Date of Issue: **2018-02-28** Page 1 of 4 Issue No. 1 (2016-07-14)
Applicant: **Killark, Div. of Hubbell Inc. (Delaware)**
3940 Martin Luther King Drive
St. Louis, MO 63113
United States of America
Equipment: **HKH Series Control Stations**
Optional accessory:
Type of Protection: **Flameproof "d", Increased Safety "e", Encapsulation "mb", Enclosure "tb"**
Marking:
Ex de IIC T6...T4 Gb
Ex e IIC T6...T4 Gb
Ex e mb IIC T6...T4 Gb
Ex de mb IIC T6...T4 Gb
Ex tb IIIC 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:

Katy A. Holdredge

Position:

Senior Staff Engineer

Signature:
(for printed version)

Date:

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, Div. of Hubbell Inc. (Delaware)**
3940 Martin Luther King Drive
St. Louis, MO 63113
United States of America

Additional Manufacturing location(s):

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 electrical apparatus 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 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2007-04 Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-18 : 2014 Edition:4.0	Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2006-07 Edition:4	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 equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

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

Quality Assessment Report:

[GB/BAS/QAR06.0027/07](#)

[GB/BAS/QAR06.0061/06](#)

[US/UL/QAR07.0004/08](#)



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Schedule

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 x47.5mm.
- EXM Calotte covers must be installed per the manufacturer's instructions through the wall of a suitable ATEX/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 EN/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 (ie: 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 EN/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.

Annex:

[Annex to IECEX UL 15.0054X Issue 2.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
- IX - Legend Plate (optional)
x - Letter or Digit
- X - Accessory Type (optional)
xx - Letter-Digit



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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

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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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

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

MARKING

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

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

Harsh & Hazardous WWW.HARSHANDHAZARDOUS.COM ST. LOUIS, MO 63113


0539 II2G Ex e mb IIC T6...T4 Gb SEE IOM FORM K1466 & K1470
0539 II2D Ex tb IIIC T85°C...T135°C Db IP66 FOR T-CODES AND FOR ELECTRICAL RATINGS.

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

EAC **Segurança**

IEEx 16.0079 INMETRO

24617DAAM - TO BE USED WHEN CONTROL STATION INCLUDES ONLY SERIES WDU,WPE, OR Z54 TERMINAL BLOCKS - AND - A CZ0205 VOLTMETER OR MILLIAMMETER

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

Harsh & Hazardous WWW.HARSHANDHAZARDOUS.COM ST. LOUIS, MO 63113

0539 II2G Ex e IIC T6...T4 Gb SEE IOM FORM K1466 & K1470
0539 II2D Ex tb IIIC T85°C...T135°C Db IP66 FOR T-CODES AND FOR ELECTRICAL RATINGS.

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

EAC **Segurança**

IEEx 16.0079 INMETRO

24617EAAM - TO BE USED WHEN CONTROL STATION INCLUDES ONLY SERIES WDU,WPE, OR Z54 TERMINAL BLOCKS - AND/OR - CZ0205 AMMETER




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


Harsh & Hazardous WWW.HARSHANDHAZARDOUS.COM ST. LOUIS, MO 63113

INDUSTRIAL CONTROL EQUIPMENT FOR USE IN ZONE CLASSIFIED HAZ. LOCS.

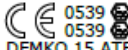
CLASS I, ZONE 1, AEx de IIC T6...T4 Gb; Ex de IIC T6...T4 Gb
 ZONE 21, AEx tb IIIC T85°C...T135°C Db IP66; Ex tb IIIC T85°C...T135°C Db IP66
 CLASS I, DIV.2, GRPS. A,B,C,D; CLASS II, DIV.1, GRPS. E,F,G (CANADA ONLY)
 CLASS II, DIV.2, GROUPS E,F,G; CLASS III
 CLASS III; TYPE 3/4/4X/12/13; -50°C ≤Ta≤+60°C SEE IOM FORM K1466 FOR ELECTRICAL RATINGS.

 **A243**



24617AAAM - TO BE USED ON ALL CONTROL STATIONS

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

Harsh & Hazardous WWW.HARSHANDHAZARDOUS.COM ST. LOUIS, MO 63113

 0539 II2G Ex de IIC T6...T4 Gb SEE IOM FORM K1466 & K1470
 0539 II2D Ex tb IIIC T85°C...T135°C Db IP66 FOR T-CODES AND FOR ELECTRICAL RATINGS.

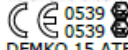
DEMKO 15 ATEX 1405X
 Ex de IIC T6...T4 Gb;
 Ex tb IIIC T85°C...T135°C Db IP66
 IECEx UL 15.0054X
 -50°C ≤Ta≤+60°C (-40°C ≤Ta≤+55°C WITH AMMETER)

  **IEEx 16.0079 INMETRO**

24617BAAM - TO BE USED WHEN CONTROL STATION INCLUDES AN HKH CONTACT BLOCK, HKH PILOT LIGHT, WDU,WPE, OR Z54 TERMINAL BLOCKS - AND - A CZ0205 AMMETER

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

Harsh & Hazardous WWW.HARSHANDHAZARDOUS.COM ST. LOUIS, MO 63113

 0539 II2G Ex de mb IIC T6...T4 Gb SEE IOM FORM K1466 & K1470
 0539 II2D Ex tb IIIC T85°C...T135°C Db IP66 FOR T-CODES AND FOR ELECTRICAL RATINGS.

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

  **IEEx 16.0079 INMETRO**

24617CAAM - TO BE USED WHEN CONTROL STATION INCLUDES AN HKH CONTACT BLOCK OR HKH PILOT LIGHT - AND - A CZ0205 VOLTMETER OR MILLIAMMETER



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LIST OF CERTIFIED COMPONENTS

Components certificate	Type	Certificate
Contact Block	'e'	IECEX UL 12.0033U
Pilot Light	'db' 'e'	IECEX UL 14.0047U
Actuators, Pilot Light Lens Cover, and Plugs	'e' 'tb'	IECEX UL 14.0104U
Polymeric Enclosure	'e' 'tb'	IECEX UL 14.0103U
Stainless Steel Enclosure	'e' 'tb'	IECEX UL 14.0039U
E-Stops	'e' 'tb'	IECEX UL 15.0111U
Terminal Blocks	'e'	IECEX LCIE 08.0031U
Terminal Blocks	'e'	IECEX ULD 14.0005U
EXM Calotte Cover	'e' 'tb'	IECEX CQM 15.0035U
CZ0205 Ammeter	'e' 'mb'	IECEX CQM 14.0034U