



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 14.0071U

Issue No: 1

Certificate history:

Status: **Current**

[Issue No. 1 \(2017-12-21\)](#)

[Issue No. 0 \(2015-01-30\)](#)

Date of Issue: **2017-12-21**

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

Equipment: **HK Series Enclosures**

Optional accessory:

Type of Protection: **Flameproof "db", Dust Ignition Protection by Enclosure "tb"**

Marking:

Ex db IIC Gb

Ex tb III C Db IP66

*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](#).

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):

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 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 : 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"

*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/ExTR14.0101/01](#)

Quality Assessment Report:

[GB/SIR/QAR16.0021/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

These devices are empty aluminum or stainless steel flameproof enclosures, with a single or double enclosure body. The cover can be of blank, glass lens, dome, or glass lens dome construction, with various openings and locations.

Please see Annex for additional information and Schedule of Limitations.

SPECIFIC CONDITIONS OF USE: NO



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

Issue 1: The ambient range has been lowered to -60°C and the ambient raised to +70°C for all cover types. In addition, standard IEC 60079-31 has been updated to the most recent edition.

Annex:

[Annex to IECEx UL 14.0071U Issue 1.pdf](#)



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TYPE DESIGNATION

Nomenclature for HK Enclosures

Double Port Enclosure Nomenclature

2HKB I	BC II	BC III	0 IV
I	Back Box Type		
	2HKB	Aluminum Box Double Port	
	2HKS	Stainless Steel Box Double Port	
II	Cover Assembly – Side 1		
	BC	Blank	
	1DC	1 in. High Dome Cover	
	2DC	2 in. High Dome Cover	
	4DC	4 in. High Dome Cover	
	GLC	Glass Lens Cover	
	1GLDC	1 in. High Glass Lens Cover	
	2 GLDC	2 in. High Glass Lens Cover	
	4 GLDC	4 in. High Glass Lens Cover	
III	Cover Assembly – Side 2		
	BC	Blank	
	1DC	1 in. High Dome Cover	
	2DC	2 in. High Dome Cover	
	4DC	4 in. High Dome Cover	
	GLC	Glass Lens Cover	
	1GLDC	1 in. High Glass Lens Cover	
	2 GLDC	2 in. High Glass Lens Cover	
	4 GLDC	4 in. High Glass Lens Cover	
IV	Side Alternate Machining		
	0	None	
	10	1/2 in. NPT	
	1S	1/2 in. NPSM*	
	20	3/4 in. NPT	
	2S	3/4 in. NPSM*	

*Not to be used for cable or conduit connections.

Single Port Enclosure Nomenclature

HKB I	1GLD II	1S III	20 IV
I	Back Box Type		
	HKB	Aluminum Box Single Port	
	HKBD	Aluminum Deep Box Single Port	
	HKS	Stainless Steel Box Single Port	



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HKSDB Stainless Steel Deep Box Single Port

II	B	Blank
	1D	1 in. High Dome Cover
	2D	2 in. High Dome Cover
	4D	4 in. High Dome Cover
	GL	Glass Lens Cover
	1GLD	1 in. Glass Lens Cover
	2GLD	2 in. Glass Lens Cover
	4GLD	4 in. Glass Lens Cover
III	Back Alternate Machining	
	0	None
	10	1/2 in. NPT
	1S	1/2 in. NPSM*
	20	3/4 in. NPT
	2S	3/4 in. NPSM*
IV	Side Alternate Machining	
	0	None
	10	1/2 in. NPT
	1S	1/2 in. NPSM*
	20	3/4 in. NPT
	2S	3/4 in. NPSM*

*Not to be used for cable or conduit connections.

MARKING

WARNING: DO NOT OPEN WHEN EXPLOSIVE GAS ATMOSPHERE MAY BE PRESENT		 3940 M.L. KING DR. ST. LOUIS, MO. 63113 U.S.A.	EXTERNAL LABEL MUST BE REMOVED AT TIME OF INSTALLATION
SER. NO.			
CAT. NO.			
UL DEMKO 01 ATEX 015742U IECEx UL 14.0071U			
0518 @ II 2 G D			
Ex db IIC Gb			
Ex tb IIC Db IP66			
SERVICE / AMBIENT -60°C to +70°C			
P/N 24261AAAM			



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SCHEDULE OF LIMITATIONS

- Where necessary for safety, the contents of the enclosure shall comply with the appropriate requirements of relevant standards for electrical apparatus for use in potentially explosive atmospheres.
- The assembled equipment shall comply with the appropriate requirements of relevant standards for electrical apparatus for use in potential explosive atmospheres.
- The enclosed apparatus may be placed in any arrangement provided that an area of at least 40% of each cross sectional area remains free to permit unimpeded gas flow and, therefore, unrestricted development of an explosion. Separate relief areas may be aggregated provided that each area has a minimum dimension in any direction of 12.5 mm.
- Rotating or other devices which create turbulence shall not be incorporated.
- Liquids shall not be used when there is risk of producing an explosive mixture by the decomposition of or release of oxygen by these liquids.
- The use of energy storage devices may present difficulties, due to the possibility of sparking, after isolation from the supply, when the enclosure cover is removed. In addition, secondary cells, and in some cases primary cells may emit flammable gas not considered under the normal certification conditions. The following requirements shall apply:
 - All such devices shall be provided with adequate means to prevent incendive sparking when flameproof covers are removed.
 - Enclosures which can be opened more quickly than the time necessary for the discharge of incorporated capacitors to a residual energy of:
 - 0.2 mJ for electrical apparatus of Group I or Group IIA, or
 - 0.06 mJ for electrical apparatus of Group IIB
 - 0.02 mJ for electrical apparatus of Group IICshall be provided with a label stating the delay required before attempting to open the enclosure.
 - If enclosed components have a temperature above that of the temperature classification of the electrical apparatus a label shall be provided stating the delay necessary before attempting to open the enclosure to allow the component to cool below the temperature classification.
- Oil-filled contactors shall not be used.
- No holes, whether for mechanical or electrical purpose and whether blind or clear, shall be drilled in the enclosure other than those shown on the Component Certificate Drawings D-20675 & D-20676.
- All entry devices shall be of a type specified in the certification documents having an appropriate component Certificate and suitable for the conditions of use, or be specifically certified with the apparatus.
- Any unused entry shall be closed by a device specified in the certification documents having an appropriate Component Certificate or be specifically certified with the apparatus.
- The holder of the final Certificate will be required to provide information to enable the test authority to verify compliance with the above and the relevant parts of the certification standard not explicitly covered by the Component Certificate (e.g. temperature classification).
- The window temperature must not exceed 120°C.
- The sealing cement on the windows shall not exceed 87°C.
- Flameproof joints are not to be repaired in the field. If the flamepath is damaged, the enclosure is to be removed from service and replaced with a new properly working enclosure.