



## (1) EC-TYPE-EXAMINATION CERTIFICATE (Translation)

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 94/9/EC**

(3) EC-type-examination Certificate Number:

**PTB 02 ATEX 1072**



(4) Equipment: Controller type GR.. - ...L..... CN

(5) Manufacturer: KILLARK, Div of Hubbel Inc. (Delaware)

(6) Address: St. Louis MO 63115 USA

(7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report PTB Ex 02-12231.

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

**EN 50 014:1997 + A1 + A2**

**EN 50 018:2000**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-type-examination Certificate relates only to the design and construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this equipment.

(12) The marking of the equipment shall include the following:

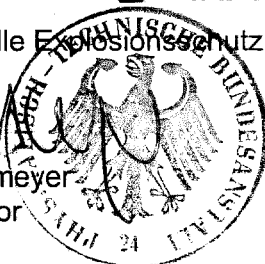


**II 2 G EEx d IIC T6 or T5**

Zertifizierungsstelle Explosionschutz

By order:

Dr.-Ing. U. Klausmeyer  
Regierungsdirektor



Braunschweig, January 17, 2003

## SCHEDULE

(13)

(14) **EC-TYPE-EXAMINATION CERTIFICATE PTB 02 ATEX 1072**

(15) Description of equipment

The controller of type GR.. - ...L... .. CN consists alternatively of one or several housings of the type of protection Flameproof Enclosure "d", which contain electrical apparatus. The connection is carried out by direct cable entry or through a conduit entry. Technical details for it are specified in the operating instructions.

### Electrical data

Rated voltage ..... max. 690 V  
Conductor size AWG ..... max. 120 mm<sup>2</sup> (4/0)

Maximum power loss for use in temperature class

Housing Type	T6	T5
GRB	30 W	40 W
2GRB	35 W	55 W
4GRB	45 W	65 W
GRE	55 W	85 W
GRM	75 W	115 W
3GRM	90 W	130 W
5GRM	95 W	140 W
GRK	100 W	145 W
4GRK	145 W	205 W
GRL	120 W	170 W
GRH	160 W	225 W
4GRH	190 W	265 W
8GRH	230 W	330 W
GRHC	180 W	255 W
4GRHC	220 W	310 W
8GRHC	245 W	355 W
GRHA	215 W	300 W
4GRHA	240 W	345 W
8GRHA	270 W	395 W

Rated values are maximum values, the actual electrical values are determined by mounted electrical apparatus. Within these limiting values complying with the appropriate standards the manufacturer specifies the final limiting values dependent on power supply specifications, operating mode, utilization category, etc.

(16) Report PTB Ex 02-12231

(17) Special conditions for safe use

The controller may also be connected by means of suitable cable entries or conduit systems which meet the requirements of EN 50018, sections 13.1 and 13.2, and for which a separate examination certificate has been issued.

Openings not used shall be closed in compliance with EN 50018, section 11.

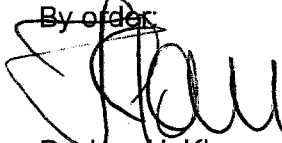
This EC type-examination certificate as well as any future supplements thereto shall at the same time be regarded as supplements for Component Certificate PTB Nr. Ex- 97.D.1048.

(18) Essential health and safety requirements

The tests and the favorable results these have produced reveal that the controller meets the requirements of directive 94/9/EC as well as those of the standards quoted on the cover sheet.

Zertifizierungsstelle Explosionsschutz

By order



Dr.-Ing. U. Klausmeyer  
Regierungsdirektor



Braunschweig, January 17, 2003

## 1. SUPPLEMENT

according to Directive 94/9/EC Annex III.6

to EC-TYPE-EXAMINATION CERTIFICATE PTB 02 ATEX 1072

(Translation)

Equipment: Controller Type GR...L...CN

Marking: II 2 G EEx d IIC T6 or T5

Manufacturer: Killark, Div. of Hubbell Inc. (Delaware)

Address: St. Louis, MO 63113  
USA

### Description of supplements and modifications

Into the controller type GR...L...CN can be built in - separately certified - push button pilot lights type series GOB4 and GOL4 and pilot light type series GOB3 and GOL3.

These push button pilot lights and pilot lights are approved for the gas group IIB + H<sub>2</sub>.  
The marking changes to read:

II 2 G EEx d IIB + H<sub>2</sub> T6 or T5

The empty housing type GR...L...CN can be used, which is approved in the 1<sup>st</sup> supplement of EC-type examination certificate PTB 02 ATEX 1071 U.

Shock protection, protection against solid bodies,  
and protection against ingress of water

IP56 according to EN 60529  
as a minimum

Test report: PTB Ex 03-13345

Zertifizierungsstelle Explosionsschutz

By order:

Dr.-Ing. U. Klausmeier  
Regierungsdirektor



Braunschweig, February 02, 2004

Sheet 1/1

EC-type-examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.

## 2. SUPPLEMENT

according to Directive 94/9/EC Annex III.6

### to EC-TYPE-EXAMINATION CERTIFICATE PTB 02 ATEX 1072

(Translation)

Equipment: Controller Type GR...L...CN

Marking: II 2 G EEx d IIC T6 or T5 or EEx d IIB + H<sub>2</sub> T6 or T5

Manufacturer: Killark, Div. of Hubbell Inc. (Delaware)

Address: St. Louis, MO 63113  
USA

#### Description of supplements and modifications

The type designation of the controller type GR...L...CN is supplemented. Alternatively it can be read: type GR...L...CEN.

The controller may also be used in areas in which explosive atmospheres produced by dust/air mixtures may occur.

The marking will be supplemented to:

II 2 G EEx d IIC T6 or T5 or EEx d IIB + H<sub>2</sub> T6 or T5

II 2 D IP66 T 80 °C or T 95 °C

Protection against foreign bodies

and ingress of liquids: ..... IP 66 according to EN 60529

#### Applied standards

EN 50281-1-1:1998

Test report: PTB Ex 05-15016

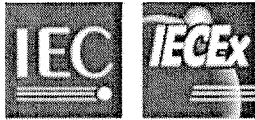
Zertifizierungsstelle Explosionsschutz

By order:

Braunschweig, June 24, 2005

Dr.-Ing. U. Klausmeyer  
Direktor und Professor





# 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](http://www.iecex.com)

Certificate No.: **IECEX PTB 05.0029** Issue No.: **0**

Status: **Current**

Date of Issue: **2005-11-24** Page 1 of 4

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

Electrical Apparatus: **Controller Type \*GR\*\* \*-\*\*\*L\*\*\* \*\***  
*Optional accessory:*

Type of Protection: **Flameproof Enclosure**

Marking: **Ex d IIC or Ex d IIB + H2 T6 or T5**  
**Ex tD A21 IP66 T 80 °C or T 95 °C**

*Approved for issue on behalf of the IECEx  
Certification Body:*

Dr.-Ing. Klausmeyer

*Position:*

Head of Section "Flameproof Enclosure"

*Signature:  
(for printed version)*

  
01.11.06

*Date:*

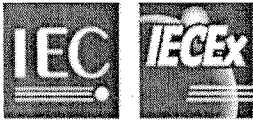
1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

**Physikalisch-Technische  
Bundesanstalt (PTB)**

Bundesallee 100  
38116 Braunschweig  
Germany





# IECEX Certificate of Conformity

Certificate No.: **IECEX PTB 05.0029**

Date of Issue: **2005-11-24**

Issue No.: **0**

Page **2** of **4**

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

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 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:

<b>IEC 60079-0 : 2000</b> Edition: 3.1	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2001</b> Edition: 4	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosures 'd'
<b>IEC 61241-0 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
<b>IEC 61241-1 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

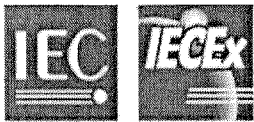
*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

## TEST & ASSESSMENT REPORTS:

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

IECEX ATR:  
**DE/PTB/05-031**

File Reference:  
**B021072**



# IECEX Certificate of Conformity

Certificate No.: **IECEX PTB 05.0029**

Date of Issue: **2005-11-24**

Issue No.: **0**

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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

#### Description of equipment

The Controller type \*GR\*\* \*\_\*\*\*L\*\*\* \*\* is a series of cast aluminum enclosures with threaded covers that are either flat blank, contain a sight glass or domed. It contains different electrical apparatus.  
The empty enclosure is approved under the number IECEX PTB 05.0028U

Connection is carried out by direct cable entry or through conduit entry. The controller can be provided with different operators (see list in the certificate of the empty enclosure).

The marking of the apparatus is: **Ex d IIC**.

The controller can also be provided with pilot lights and operators (see list in the certificate of the empty enclosure). In this case the gasgroup changes to **IIB + H<sub>2</sub>**:

#### Technical data

Shock protection, protection against solid bodies and protection against ingress of water	IP 66 according to EN 60529
Ambient temperature	-20 °C to +40 °C
Rated voltage	max. 690 V
Conductor size (AWG)	max 120 mm <sup>2</sup> (4/0)

Rated values are maximum values, the actual electrical values are determined by mounted electrical apparatus. Within these limiting values complying with the appropriate standards the manufacturer specifies the final limiting values dependent on power supply specifications, operating mode, utilization category, etc.

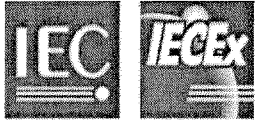
#### Type designation

*	GR**	*	_***L***	***
1	2	3	4	5

Maximum Power Loss, Key of Type designation and List of Operators see Annex

**CONDITIONS OF CERTIFICATION: NO**





# IECEX Certificate of Conformity

Certificate No.: **IECEX PTB 05.0029**

Date of Issue: **2005-11-24**

Issue No.: **0**

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**Additional information:**

**Maximum Power Loss, Type designation and G Series Operators**

**Controller type \*GR\*\* \*-\*\*\*L\*\*\* \*\***

**Killark, Div. of Hubbell Inc. (Delaware)**

Maximum power loss for use in temperature class		
Enclosure Type	T6	T5
GRB	30 W	40 W
2GRB	35 W	55 W
4GRB	45 W	65 W
GRE	55 W	85 W
GRM	75 W	115 W
3GRM	90 W	130 W
5GRM	95 W	140 W
GRK	100 W	145 W
4GRK	145 W	205 W
GRL	120 W	170 W
GRH	160 W	225 W
4GRH	190 W	265 W
8GRH	230 W	330 W
GRHC	180 W	255 W
4GRHC	220 W	310 W
8GRHC	245 W	355 W
GRHA	215 W	300 W
4GRHA	240 W	345 W
8GRHA	270 W	395 W

**Type designation**

*	GR**	*	-***L***	**
1	2	3	4	5

**Key of type designation**

1: Designation of the cover (height)	
Blank	Flat blank cover
2	2 inch height (50,8 mm)
3	3 inch height (76,2 mm)
4	4 inch height (101,6 mm)
5	5 inch height (127 mm)

8	8 inch height (203,2 mm)
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<b>2: Code number for the dimension of the enclosure / opening</b>	
GRB	117,5 x 117,5 x 114,3 / 101,6 mm
GRE	168,3 x 139,7 x 136,5 / 114,3 mm
GRK	250,8 x 200,0 x 170,7 / 187,3 mm
GRM	174,6 x 174,6 x 161,9 / 136,5 mm
GRL	266,7 x 225,4 x 190,5 / 203,2 mm
GRH	304,8 x 279,4 x 209,6 / 247,5 mm
GRHA	304,8 x 279,4 x 419,1 / 247,5 mm
GRHC	330,2 x 295,3 x 257,2 / 247,5 mm

<b>3. Code number for mounting plate</b>	
empty	No mounting pan
P	Mounting pan on the bottom of the enclosure

<b>4. Code number for the window</b>	
275L	Diameter 69,85 mm
300L	Diameter 76,20 mm
375L	Diameter 95,25 mm
537L	Diameter 136,40 mm
600L	Diameter 152,40 mm
775L	Diameter 196,85 mm
375L52	Diameter 69,85 mm, with mounting pan
537L52A	Diameter 136,40 mm, with mounting pan
600L52B	Diameter 152,40 mm, with mounting pan
600L52C	Diameter 152,40 mm, with mounting pan
775L52B	Diameter 196,85 mm, with mounting pan

<b>5. Code number for the suffix</b>	
<b>doesn't influences the explosion protection</b>	
SU6	Mounting lugs removed
SU8	Pan mounting studs less pan
SU9	Special finish
SU14	Fungus proofing
CEN, CN	Modified for Cenelec approval
MOD	Modified enclosure to specified customer requirements

## Killark G Series Operators

G Series Operators Type designation	Description The * indicates additional numbers and letters which designates the device color and contact block (circuit) arrangement.
GO1 **** N34	Single pushbutton, maintained contact
GOM1-****	Single pushbutton, maintained contact, Mushroom head, Pull type
GO2-***** N34	Double pushbutton, momentary contact
GOR11-**** N34	Double pushbutton, maintained contact
GO5-**** N34	Selector switch, maintained contact, 2, 3, or 4 position
GO6-** N34	Selector switch, spring return, two position, return to left
GO7-** N34	Selector switch, three position, spring return to center from right or left
GO14-** N34	Selector switch, three position spring return to center from right, maintained in left
GO15-** N34	Selector switch, three position, spring return to center from left, maintained in right
GO8-***** N34	Key selector switch, maintained contact, 2 or 3 position
GO36-**** N34	Key selector switch, 2 position, spring return to left
GOL1**	Single pushbutton, momentary contact, extended length
GOL2****	Double pushbutton, maintained contact, extended length
GOL5***	Selector switch, maintained contact, 2, 3, or 4 position, extended length
GOL6*	Selector switch, 2 position, spring return to left, extended length
GOL7*	Selector switch, 3 position, spring return to center from right or left, extended length
GOL14*	Selector switch, 3 position, spring return to center from right, maintain in left, extended length
GOL15*	Selector switch, 3 position, spring return, to center from left, maintain in right, extended length
GOL8*****	Key selector switch, maintained contact, 2 or 3 position, extended length
GOL36****	Key selector switch, 2 position, spring return to left, extended length
GO37-**** N34	Key selector switch, 3 position, spring return to center, from right or left, extended length
GO38-**** N3	Key selector switch, 3 position, spring return to center, from right, maintained in left, extended length
GO39-**** N34	Key selector switch, 3 position, spring return to center, from left, maintained in right, extended length
GO10-*** N34	Snap switch operator, Single pole, single throw, or single pole double throw

GO113 N34	Potentiometer and Rheostat operator, single turn
GO114 N34	Potentiometer and Rheostat operator, 15 turn
GO-RST	Reset Operator, plunger type with 152.4 mm adjustable extension
GO50	Rotary or motor shaft operator, NPSM thread, 12.7 mm diameter shaft, type male to male shaft connection
GO-SP**	Factory Configured for mounting special device
GOL37****	Key selector switch, 3 position, spring return to center, from right or left, extended length
GOL38****	Key selector switch, 3 position, spring return to center, from right, maintained in left, extended length
GOL39****	Key selector switch, 3 position, spring return to center, from left, maintained in right, extended length
GOL113	Potentiometer and Rheostat operator, single turn, extended length
GOL114	Potentiometer and Rheostat operator, 15 turn, extended length
GOLRST	Reset Operator, plunger type with 152.4 mm adjustable extension, extended length
GO51	Rotary or motor shaft operator, 12.7 mm diameter shaft, type male to male shaft connection
GOLSP**	Factory Configured for mounting special device, extended length

G Series Pilot Lights, Type designation	Description The * indicates additional numbers and letters which designates the device color and contact block (circuit) arrangement.
GOB3-**** N34CN	Pilot light, 120 V max. 3 Watt lamp
GOL3**CN <sup>1</sup>	Pilot light
GOB4-**** N34CN <sup>1</sup>	Push button pilot light, 120 V max. 3 Watt lamp
GOL4**CN <sup>1</sup>	Push button pilot light



# CERTIFICATION RECORD

The company named below has been authorized by CSA International to represent the products listed in this record as "CSA Certified" and to affix the CSA Mark to these products according to the terms and conditions of the CSA Service Agreement and applicable CSA program requirements (including additional Markings).

File No: 011716\_C\_000

Class No: 4418 02 OUTLET BOXES AND FITTINGS Boxes - For Hazardous Locations

## SUBMITTOR

4501218 Killark Electric Manufacturing Co.  
3940 Martin Luther King Dr  
St. Louis, MO 63113  
USA

## FACTORIES

4501218 Killark Electric Manufacturing Co.  
3940 Martin Luther King Dr  
St. Louis, MO 63113  
USA

September 21, 2006(Replaces:May 17, 2006)

Class I, Groups B, C, and D; Class II, Groups E, F and G; Class III, CSA Enclosures 3 and 4 (complete enclosures and component packaged).

- HK and 2HK Series instrument enclosure (Component Packaged): HKB, HKSB, HKBD, 2HKB, or 2HKSB box with optional covers: HFC, HFSC, HKGL, HKSG, HK2D, HKS2D, HK4D, HKS4D, HK1GLD, HK2GLD, or HKS2GLD, denoting flat (F), dome (D), and window covers (GL); with 3/4 in. conduit entries.
- HK and 2HK Series instrument enclosures, Cat No: HKB, HKSB, HKBD, 2HKB, or 2HKSB; may be followed with the suffix 01, 02, 20, 21, 22, 01S, 02S, 21S, 22S, 2S1S, 2S2S, 2SO, 2S1, or 2S2.
- HK Series instrument enclosures, Cat No: HKB, HKSB, or HKBD followed by Suffix B, 2D, 4D, GL, or 2GLD; may be followed with the suffix letter C; with 3/4 in. max conduit entries.
- 2HK Series instrument enclosures Cat No: 2HKB, 2HKSB followed by suffix B, 2D, 4D, GL, or 2GLD, followed by suffix B, 2D, 4D, GL, or 2GLD; may be followed with the suffix letter C; may be followed with the suffix -MOD; with 3/4 in. conduit entries.

Note: Series HK, 2HK and HKB instrument enclosures with or without optional covers (component packaged) when suffix S is added to the Cat No it denotes 316 stainless steel construction. In addition, when suffix -4X is added to the Cat No it denotes enclosure type rating 4X.

- Outlet Boxes, Cat No SPM25131N34 and SPM25132N34, conduit size 4 in. max.
- Series GR outlet boxes (component packaged); Cat No GRBB conduit size 1-1/2 in max with optional covers GRB-BC, 2GRBD, 4GRBD, GL-275; Cat No GREB conduit size 2 in max with optional covers GRE-BC, GL-300; Cat No GRKB conduit size 3 in max with optional covers GRK-BC, 4GRKD, GL-537; Cat No GRLB conduit size 3 in max with optional covers GRL-BC, GL-600; Cat No GRMB conduit size 3 in max with optional covers GRM-BC, 3GRMD, 5GRMD, GL-375; Cat Nos GRHB, GRHAB, GRHCB conduit size 4 in max with optional covers GRH-BC, 4GRHD, 8GRHD, GL-775. All may be followed by P and/or suffixes SU6, SU8, SU9, SU14 nd CEN.
- Series GR outlet boxes; Cat No GRB may be prefixed by 2 or 4 followed by P or -275L conduit size 1-1/2 in max; Cat No GRE followed by P or -300L conduit size 2 in max; Cat No GRK may be prefixed by 4, followed by P, -537L, -537L52A or -537L52B; Cat No GRM may be prefixed by 3 or 5, followed by P, -375L or -375L52; Cat No GRL followed by P, -600L, -600L52B or -600L52C conduit size 3 in max; Cat No GRH may be prefixed by 4 or 8, followed by P, -775L or -775L52B, Cat No GRHA may be prefixed by 4 or 8, followed by P or -775L; Cat No GRHC may be prefixed by 4 or 8, followed by P or -775L conduit size 4 in max. All may have suffixes SU6, SU8, SU9, SU14, -CEN and/or MOD.

Class I, Groups B, C and D; Class II, Groups E, F and G; Class III; Encl. Types 3 and 4 where applicable :

- Cat Nos BRH, BRHA, 8BRH, SPM-11768, SPM-12761-A, SPM-13238-A, 2 in conduit max.
- Outlet boxes, Series EXB, with or without operator holes (91 max) or rectangular (5 x 9 in max) or round (GL275, -300, -375, -537, -600, -775) windows, Series Cat Nos: EXB-664, -886, -8104, -8106, -8126, -8128, -10106, -10108, -10146, -10148, -12126, -12128, -12186, -12188, -12246, -12248, -122412, -12368, -123610, -14146, -14148, -16166, -16168, -16248, -162410, -18186, -18188, -18248, -182410, -18368, -183610, -203611, -24248, -242410, -24308, -24368 and -243610; max conduit size 6 in.

Note: Series EXB outlet boxes may be furnished with blank mounting pans and Certified terminal blocks, Cat No may be followed with suffixes "SPM" followed with digits, denoting mechanical variations.

- Series GEB - Types GEBC, GEBL, GEBT, and GEBX, followed by -2, -3, -4, -5, -24, or -25, conduit size 3/4 to 1-1/2 in, Type 4X.
- Condulet Cat No GECUET-2, conduit size 3/4 in.
- Outlet Boxes, Cat No SPM25131 and SPM25132, conduit size 4 in. max.

Class I, Groups C and D; Class II, Groups E, F and G; Class III; Encl Types 3 and 4:

- Single run flow computer enclosures, Model Nos 17078AAAM and 17078BAAM, 1/2 in max conduit trade size.

Class I, Groups C and D; Class II, Groups, E, F and G; Class III:

- Series GE, Types GEC, -T, -UAT, -UE, -UEA, -UEAT, -UET, -UWT, -UU, -X, 1/2 or 3/4 in conduit; Series GEC, Types GEC, -CAT, -CT, -CFT, -EAT, -ET, -HT, -K, -L, -LA, -LAT, -LBT, -LET, -LT, -LTF, -MA, -ME, -MU, -NT, -T, -TAT, -TN, -TT, -TTF, -UE, -UET, -UU, -UW, -UWT, -X, -XAT, -XT, -XTF, 1/2, 3/4 or 1 in conduit; Series GEJ, Types GEJCT, -ET, -LBT, -LT, -TT, -XT, conduit sizes 1-1/2 in. and 2 in. with blank GRMBC cover, weatherproof (Type 3),

watertight (Type 4): Series GEM, Types GEM, -CA, -CF, -E, -EA, -L, -LA, -LB, -LF, -MN, -MT, -TA, -T, -C, -TF, -X, -XA, -XF, 1/2 or 3/4 in conduit; Series GES, (Component Packaged) Types GESLBT-3, GESLBT-3-2D, SPJ-13643 and SPJ-13644; 1 in conduit; Types GRB\*, GRE, SPM10095A, watertight weatherproof, 1/2 to 2 in conduit; Type GRM, watertight, weatherproof 1/2 to 3 in conduit, Series GEJ, Type GEJLBT, 3/4 or 1 in conduit; Cat No GRHA\*, 4 in conduit max; Type GRJ\*, watertight, weatherproof, 1/2 to 3 in conduit; Types GRC, GRR, 1/2, 3/4 or 1 in conduit; Types GRS, GRSA, 3/4 in conduit; Type GRSS, 1/2, 3/4 or 1 in conduit; Type GRSSA, 1/2 or 3/4 in conduit; Series GRCD, HXB, JAL, 1/2 to 1 in conduit; Series JL, 1/2 or 3/4 in conduit.

- Type GETC-2, conduit size 3/4 in, with flat cover Type GESBC.
- Series X, Type XALB, pull boxes 1/2 to 3 in conduit; Series SWBC, Type XB, Cat No XB12126\*, max 3 in conduit; Types XC, -LB, -LL, -LR, -T, -TA, -TB, -X, -XA, 1/2, 3/4 or 1 in conduit; Cat Nos SWBC-1 to -14 incl. -17 to -21 incl., -31 to -38 incl. and SWBC-83, Series X-10, -11 or -12 and Cat Nos SWB-48, SWB-49.
- Covers, blank, Types GECBC, GEMBC, GRBBC, GREBC, GRMBC, GRRBC, JACB, JAL, JCB, JL; X-10, -11, -12, dome, Types 2GOU, 4GOU, 2GRBD, 4GRBD, 6GRBD, 2GRED, 4GRED, 6GRED, 3GRMD, 5GRMD, 1/2 or 3/4 in. conduit hub. Types JAH-1, -2, JH-1, -2.
- Cat No SPJ-16090, 3/4 in conduit max. Type XB, threaded for rigid conduit, 2 in tradesize max, Cat No XB-8106.
- Type XB, threaded for rigid conduit, 2 in trade size max, Cat Nos XB-444\*, -464\*, -664, -684\*, -884\*, -886\*, -10126\*, -12126\*; 4 in trade size max, -6186\*, -6366\*, -8106\*, XB-12128\*, -12168\*, -12245\*, -12328\*, -123610\*, -12248\*. Type XJB, threaded for rigid conduit connections, 1 in trade size, Cat Nos XJB-8104\*; 1 1/2 in trade size XJB-8105\*, -8106\*, -10166\*, -10246\*, -12196\*, -12243\*, -12246\*; 2 in trade size max, XJB-444\*, -464\*, -5104\*, -5105\*, -5106\*, -5133\*, -5135\*, -5136\*, -5183\*, -5186\*, -6104\*, -6105\*, -6106\*, -8136\*, -8156\*, -8186\*, -8216\*, -8138\*, -12323\*, -12326\*, -12406\*, -16166\*, -16246\*, -16326\*, -164-6\*, -20246\*, -20326\*, -24246\*; 3 in trade size max, XJB-12198\*, -121910\*, -16484\*; 3 1/2 in trade size max, XJB-12245\*, -12248\*, -122410\*, -8158\*, -8188\*, -81810\*, -12325\*, -12328\*, -123210\*, -16408\*, -164010\*; 4 in trade size -123211\*, -123213\*, -12408\*, -124010\*, -16168\*, -161610\*, -16248\*, -162410\*, -16328\*, -163210\*, -16488\*, -164810\*, -164812\*, -20248\*, -202410\*, -20328\*, -203210\*, -204010\*, -24248\*, -242410\*, -242411\*, -242413\*, -242416\*. Series GES, Types GESTT-4, CT-4, XT-4, 1-1/4 in conduit; Blank Cover, dome Type SPI-13056.

Note: May be furnished with/without blank-mounting pans and/or with/without Certified terminal blocks Cat suffix for mounting studs "SU8" or suffix letters "L", "WL", "Y", or "P" to indicate various arrangements of terminal blocks and/or "SPM" followed by five numbers with or without suffix letter SU8.

Class I, Group D; Class II, Groups E, F, G; Class III:

- Series GEJ, Types GEJCT, -ET, -LBT, -LT, -TT, -XT, conduit sizes 1-1/2 in and 2 in, with optional -375L lens cover, weatherproof (Type 3), watertight (Type 4); Series GES, Types GES, -CAT, -CT, -L, -LAT, -LBT, -LT, -MU, -NT, -T, -TAT, -TT, -UE, -UU, -UW, -X, -XAT, -XT, 1/2 to 1-1/4 in conduit; Series GOU-2, 2GOU and 4GOU, 3/4 and 1 in conduit; Type GRD\*, 1/2 to 2 in conduit; Series JAL, 1-1/4 and 1-1/2 in conduit.

Note: Suffixes SU-1, -2, -3, -8, -9, -10, -11, -12, -14, -46, -47 may be used on Type XB and XJB to denote special finish or special features added. Boxes may be furnished with blank back pans.

Class II, Groups E, F, G; Class III and Type 3:



## 32B

- Series DB, Cat No DB followed by numbers denoting width, length, depth respectively, (example 243010) - with one or more threaded rigid conduit connection 4 in max Cat Nos may include additional suffixes SU-1 through SU-15, also SU46 and PVC. Boxes may be furnished with blank mounting pans. Series DB, raintight, Cat Nos DB\*, DBA\*, -B\*, -C\*, -E\*, -F\*, -G\*, -H\* 664 through 367220; with one or more threaded rigid conduit connections 4 in max; Cat Nos may include, suffixes SU-1 through -15.

### Notes:

1. The suffix on the above catalogue number indicates the nominal outside dimensions of the box (width, length and depth) in inches. Maximum of any one dimension of these boxes are: Width 36 in, length 72 in and depth 20 in.
2. \* May be furnished with/without blank-mounting pans and/or with/without certified terminal blocks Cat suffix for mounting studs "SU8" or suffix letters "L", "WL", "Y", or "P" to indicate various arrangements of terminal blocks and/or "SPM" followed by five numbers with or without suffix letter SU8.

/sp



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KILLARK, DIV OF HUBBELL INC (DELAWARE)  
MR. T J MICHALSKI  
3940 MARTIN LUTHER KING DR  
ST LOUIS MO 63115

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**FTRV**

September 30, 2005

**Enclosures for Use in Hazardous Locations**

**KILLARK, DIV OF HUBBELL INC (DELAWARE)  
3940 MARTIN LUTHER KING DR, ST LOUIS MO 63115**

**E83969**

(Mailing address: P. O. Box 5325, St. Louis, MO 63115)  
Class I, Groups B, C and D; Class II, Groups E, F and G; Class III.

**Class I, Groups B, C and D; Class II, Groups E, F and G; Class III .**

Series B7, Cat. Nos. B7010, B7011, B7012, B7013, B7014, B7021, B7022, B7023, B7024, B7025 may be followed by additional suffix letters, may be followed by SU-3, -10 or -11, may be followed by MOD.

Series B7 followed by a single letter, followed by 20, 29, 41 or 50, may be followed by additional suffix letters, may be followed by KIT-251 or SU-3B.

Series B7C enclosures, Cat. Nos. B7CA, B7CB, B7CC, B7CD, B7CE, B7CF may be followed by additional suffix letters, may be followed by SU3B, -9, -10B, -11B or -14, may be followed by MOD; Series SPM followed by a six digit number.

Series B7E enclosures, Cat. Nos. B7EA, -B, -C, -D, E, -F, -G, -H, -J, -K, -L, -M, -N, may be followed by additional suffix letters, may be followed by SU3, SU3B, SU10 or SU11, may be followed by "MOD".

Cat. Nos. EXB-664, -886, -8104, -8106, -8126, -8128, -10106, -10108, -10146, -10148, -12126, -12128, -12186, -12188, -12246, -12248, -12368, -14146, -14148, -16248, -16166, -16168, -18186, -18188, -18248, -18368, -24248, -24308, -24368, -122412, -123610, -162410, -182410, -183610, -203611, -242410, -243610 may be followed by MOD or N34.

Cat. No. HKB, HKBD or HKSB may be prefixed by 2, followed by 1GLD, 2D, 2GLD, 4D, B or GL, may be followed by C, may be followed by 2D, 2GLD, 4D, B or GL, followed by -01, -01S, -02, -02S, -2S0, -2S1, -2S1S, -2S2, -2S2S, -20, -21, -21S, -22 or -22S, may be followed by -MOD.

Cat. No. SPJ-14046.

Series SPM followed by a six-digit number, followed by additional letters and numbers.

Cat. No. SPM-25220.

Series GCBB enclosures, Cat. Nos. GCBB may be prefixed by numbers and may be followed by additional suffix designations.

GFCS Series enclosure, Cat. No. GFCS followed by 05151, 05152, 05201, 05202, 05301, 05302, 30151, 30152, 30201, 30202, 30301, 30302.

Cat. No. GRB may be prefixed by 2 or 4, followed by P or -275L; Cat. No. GRE followed by P or -300L; Cat. No. GRK may be prefixed by 4, followed by P or -537L; Cat. No. GRM may be prefixed by 3 or 5, followed by P or -375L; Cat. No. GRL followed by P or -600L; Cat. No. GRH may be prefixed by 4 or 8, followed by P or -775L; Cat. No. GRHA may be prefixed by 4 or 8, followed by P or -775L; Cat. No. GRHC may be prefixed by 4 or 8, followed by P or -775L. All may have suffixes -CEN, -MOD, SU3B, -6, -8, -9, -10B, -11B, -14; Series B7C followed by a single letter, may be followed by additional suffix letters, may be followed by SU3B, -9, -10B, -11B, -14, may be followed by MOD.

**Class I, Group C and D; Class II, Groups E, F and G; Class III.**

Cat. No. GRB may be prefixed by 2 or 4, followed by P or -275L; Cat. No. GRE followed by P or -300L; Cat. No. GRK may be prefixed by 4, followed by P or -537L; Cat. No. GRM may be prefixed by 3 or 5, followed by P or -375L;

Cat. No. GRL followed by P or -600L; Cat. No. GRH may be prefixed by 4 or 8, followed by P or -775L; Cat. No. GRHA may be prefixed by 4 or 8, followed by P or -775L; Cat. No. GRHC may be prefixed by 4 or 8, followed by P or -775L. All may have suffixes -CEN, -MOD, SU3, -10, -11.

Series B7, Cat. Nos. B7010, B7011, B7012, B7013, B7014, B7021, B7022, B7023, B7024, B7025 may be followed by additional suffix letters, may be followed by SU-3, -10 or -11, may be followed by MOD.

Series SPH, Cat. No. SPH25010 may be followed by -X01AG, -X03AR and/or -XL0A.

Series B7C enclosures, Cat. Nos. B7CA, B7CB, B7CC, B7CD, B7CE, B7CF may be followed by additional suffix letters, may be followed by MOD, SU3, -9, -10 or -11.

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Series SPM, Cat. No. SPM followed by a six-digit number, followed by additional letters and numbers; Cat. No. SPM25034 may be followed by A; Cat. Nos. SPM25131, -25132.

Cat. Nos. SPM25107, -25108, -25659, -25660.

Series GCS-13 to -16 incl., -83, -85, -131, -141, -152, -161, -834, -835 may be followed by MOD.

Series SPM followed by a six-digit number, followed by additional numbers and letters.

Cat. No. XJB-5135.

XS-\*\*CVR Series enclosure, Cat. No. XS followed by 01 through 14, 17 through 21, 32 through 38, 41 through 46, followed by CVR.

**Class I, Group D; Class II, Groups E, F and G..**

Cat. No. SPM13592.

**Class I, Division 2, Groups B, C and D; Class II, Division 2, Groups F and G; Class III.**

Cat. No. D2 followed by L or PC followed by 1 or 3 followed by a number 9 through 42, followed by ML, MBQ, MBED, MBGH, MBGC or MBJ followed by additional numbers.

**LOOK FOR CLASSIFICATION MARK ON PRODUCT**