



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 SIR 16.0090

Issue No: 1

Certificate history:

Issue No. 1 (2017-01-18)

Issue No. 0 (2016-11-07)

Status: **Current**

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Date of Issue: **2017-01-18**

Applicant: **Hubbell Inc. - Killark Div**
3940 Dr. Martin Luther King Drive
St Louis, Missouri 63113
United States of America

Equipment: **USF-CS, SJIC-CS and SJICH-SC Series Increased Safety Control Stations**

Optional accessory:

Type of Protection: **Flameproof, Increased Safety, Encapsulation and Dust Protection by Enclosure**

Marking: Refer to Annex

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

N Jones

Position:

Certification Manager

*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:

SIRA Certification Service
CSA Group
Unit 6, Hawarden Industrial Park
Hawarden, Deeside, CH5 3US
United Kingdom

sira
CERTIFICATION





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Manufacturer: **Hubbell Inc. - Killark Div.,**
3940 Dr. Martin Luther King Drive
St Louis, Missouri 63113
United States of America

Additional Manufacturing location(s):

Hubbell Ltd T/A Chalmit Lighting, Victor Products and Transtar
388 Hillington Road
Glasgow G52 4BL
Scotland
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 : 2014-06 Edition:7.0	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 : 2015 Edition:5.0	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:

[GB/SIR/ExTR16.0282/00](#) [GB/SIR/ExTR16.0335/00](#)

Quality Assessment Report:

[GB/BAS/QAR06.0027/06](#) [US/UL/QAR07.0004/08](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Type SJIC/SJICH and USF junction boxes utilise carbon steel or stainless steel Grade 304 and grade 316 component-certified enclosures that provide an ingress protection rating of IP66 and may optionally be powder-coated.

The Type SJIC enclosures consist of a main body and a screw cover, whereas the SJICH enclosures consist of a main body and a combination hinge/screw cover. The Type USF enclosures consist of a main body and a hinged lid secured by latch fasteners. Gland plates may be utilised within the side walls of each type of enclosure and mounting feet/brackets are provided.

All enclosures have an internal and external earth facility and the gaskets utilised between the hinged lid and main body are manufactured from silicone.

Refer to the Annexe for additional information

SPECIFIC CONDITIONS OF USE: NO



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

Issue 1 – this Issue introduced the following changes:

1.

The introduction of CZ0205-series meters (1 A ammeter and 500 V voltmeter only) with EXM protective glass covers as optional cover-mounted devices, requiring the addition of 'mb' to the marking, inclusion of IEC 60079-18:2014 in the list of applicable standards, a new Condition of Manufacture and a change to the product description.

Annex:

[IECEX SIR 16.0090_Issue 1 Annex.pdf](#)

Annexe to: IECEx SIR 16.0090 Issue 1
 Applicant: Hubbell Inc. - Killark Div.
 Apparatus: USF-CS, SJIC-CS and SJICH-SC Series
 Increased Safety Control Stations



Marking

CZ0205-Series Meter Not Fitted	CZ0205-Series Ammeter Fitted	CZ0205-Series Voltmeter Fitted (With Or Without An Ammeter)
Ex db eb IIC T6...T4 Gb Ex tb IIIC T80...100°C Db	Ex db eb IIC T6...T5 Gb Ex tb IIIC T80...95°C Db	Ex db eb mb IIC T6...T5 Gb Ex tb IIIC T80...95°C Db
Ambient range when no pilot light is fitted: -50°C to +40°C (when marked with T6/T80°C) (Notes 1 and 2) -50°C to +55°C (when marked with T5/T95°C) (Notes 1 and 2) -50°C to +60°C (when marked with T4/T100°C) (Notes 1 and 2) Ambient range when pilot light is fitted: -50°C to +40°C (when marked with T6/T80°C) (Notes 1 and 2) -50°C to +55°C (when marked with T5/T95°C) (Notes 1 and 2) Notes 1 - More restrictive ambient ranges apply when certain terminals are fitted; refer to drawing 51198. 2 - When a CZ0205-series meter is installed, the ambient range is restricted to -40°C to +55°C, a T4 temperature class is not permitted and the dust temperatures are T80°C and T95°C only.		

The enclosures may be fitted with combinations of suitably certified internal devices mounted in the door of the enclosure. The permitted devices are as follows:

Manufacturer	Type reference	IECEX Certificate
Killark	HKH-series actuators	IECEX UL 14.0104U
Killark	HKH-series contact blocks	IECEX UL 12.0033U
Killark	HKH-series pilot lights	IECEX UL 14.0047U
CZ	1 A ammeter and 500 V voltmeter	IECEX CQM 14.0034U issue 0
CZ	EXM calotte (protective window)	IECEX CQM 15.0035U issue 0

The enclosures may be fitted with combinations of suitably certified terminals mounted to DIN rails, which are then attached to either mounting channels or a sub-panel secured to studs in the rear of the enclosure. The permitted terminal types are as follows:

Manufacturer	Type reference	Style	IECEX certificate
Weidmuller	WDU	Screw	N/A
Weidmuller	WDU	Screw	IECEX SIR 05.0040U/0
			IECEX SIR 05.0039U/0
			IECEX ULD 05.0008U/0
Weidmuller	ZDU	Cage clamp	N/A
Weidmuller	ZDU	Cage clamp	IECEX ULD 05.0009U/1
			IECEX KEM 07.0061U/0
			IECEX KEM 06.0048U/0
Weidmuller	PDU	Spring (push in)	IECEX KEM 06.0032U/1
Klemsan Elektrik	AVK	Screw	IECEX FTZU 10.0012U/2
Klemsan Elektrik	MVK	Screw	IECEX FTZU 10.0011U/2
Klemsan Elektrik	PIK	Screw	IECEX FTZU 10.0011U/2
Klemsan Elektrik	PUK	Screw	IECEX FTZU 10.0011U/2
Klemsan Elektrik	PYK	Cage clamp	IECEX FTZU 10.0011U/2
ABB	ZS	Screw	IECEX LCI 08.0031U/5
ABB	ZK	Cage clamp	IECEX LCIE 13.0025U/1
WAGO	2001-****	Cage clamp	IECEX PTB 11.0093U/0
WAGO	2002-****	Cage clamp	IECEX PTB 03.0004U/4
WAGO	2004-****	Cage clamp	IECEX PTB 05.0033U/1
WAGO	2006-****	Cage clamp	IECEX PTB 05.0014U/1

Sira Certification Service

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Date: 18 January 2017

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Annexe to: IECEx SIR 16.0090 Issue 1
 Applicant: Hubbell Inc. - Killark Div.
 Apparatus: USF-CS, SJIC-CS and SJICH-SC Series
 Increased Safety Control Stations



Manufacturer	Type reference	Style	IECEX certificate
WAGO	2010-****	Cage clamp	IECEX PTB 06.0003U/2
WAGO	2016-****	Cage clamp	IECEX PTB 05.0015U/2
Phoenix	UKH	Screw	IECEX KEM 06.0029U/4
			IECEX KEM 06.0030U/3
Phoenix	UT	Screw	IECEX KEM 06.0027U/5
			IECEX KEM 06.0013U/4
Phoenix	PT	Push in	IECEX PTB 10.0021U/3
			IECEX KEM 10.0046U
Phoenix	ST	Cage clamp	IECEX KEM 06.0051U/5
			IECEX KEM 06.0050U/4
			IECEX KEM 06.0033U/4
			IECEX KEM 06.0043U/5
Phoenix	QT	Cage clamp	IECEX KEM 07.0015U/3
			IECEX KEM 07.0010U/4
Phoenix	UK	Screw	IECEX KEM 06.0034U/5
			IECEX KEM 06.0029U/4
			IECEX KEM 06.0035U/4

Conditions of Manufacture

- The Control Stations incorporate the component-certified devices as listed on drawing 51198. It is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with these devices. The manufacturer shall inform Sira of any modifications to these devices that may impinge upon the explosion safety design of the Control Stations.
- If a Control Station is supplied with internal wiring by the manufacturer, then a routine dielectric strength test in accordance with IEC 60079-7:2015 clause 7.1 shall be carried out after the wiring is installed. The voltage shall be applied between the terminals and the metallic enclosure as follows:
 - $(2U + 1000)$ Vac for 60 s, or
 - $1.4 \times (2U + 1000)$ Vdc for 60 s, or
 - $1.2 \times (2U + 1000)$ Vac for 100 ms
 where U is the maximum voltage applied to the terminal and wiring. There shall be no flashover or breakdown.