



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 BAS 06.0018X

Issue No: 13

Certificate history:

Status: **Current**

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Issue No. 13 (2018-05-30)

Issue No. 12 (2017-10-18)

Issue No. 11 (2017-07-06)

Issue No. 10 (2016-02-01)

Issue No. 9 (2015-01-27)

Issue No. 8 (2012-04-23)

Issue No. 7 (2012-03-27)

Issue No. 6 (2011-03-10)

Issue No. 5 (2009-06-02)

Issue No. 4 (2008-05-08)

Issue No. 3 (2007-09-19)

Date of Issue: **2018-05-30**

Applicant:

Hawke International

A Division of Hubbell Ltd

A member of the Hubbell Group of Companies

Oxford Street West, Ashton-under-Lyne

Lancashire, OL7 0NA

United Kingdom

Equipment:

The 'Instrumex' Range Of In-line and Bulkhead Plug & Socket Connectors

Optional accessory:

Type of Protection:

Flameproof, Increased Safety, Dust

Marking:

Ex db eb IIC T6 Gb

Ex tb IIIC T80°C Db (T_{amb} = -40°C to +60°C)

Approved for issue on behalf of the IECEx
Certification Body:

R S Sinclair

Position:

Technical Manager

Signature:

(for printed version)

M POWNEY
Certification
Manager

Date:

M Powney
5/6/18

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:

SGS Baseefa Limited
Rockhead Business Park
Staden Lane
Buxton, Derbyshire, SK17 9RZ
United Kingdom





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A member of the Hubbell Group of Companies
Oxford Street West
Ashton-under-Lyne
Lancashire
OL7 0NA
United Kingdom

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"
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/BAS/ExTR06.0017/00	GB/BAS/ExTR06.0124/00	GB/BAS/ExTR07.0015/00
GB/BAS/ExTR07.0139/00	GB/BAS/ExTR08.0094/00	GB/BAS/ExTR09.0106/00
GB/BAS/ExTR11.0054/00	GB/BAS/ExTR11.0273/00	GB/BAS/ExTR12.0094/00
GB/BAS/ExTR14.0307/00	GB/BAS/ExTR16.0034/00	GB/BAS/ExTR17.0199/00
GB/BAS/ExTR17.0282/00	GB/BAS/ExTR18.0068/00	

Quality Assessment Report:

[GB/BAS/QAR06.0061/07](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The "InstrumEx" Range of Connectors may be manufactured in brass, steel, stainless steel or bronze, and each comprise a cylindrical body which may take the form of a Type CP In-line Connector, a Type CR In-line Connector or a Type BR Bulkhead connector.

The male and female parts are joined with a threaded locking ring which is fixed to the male half. When separated the connection chambers are closed with dust caps which are secured in the same manner.

The cylindrical body houses a 4, 8 or 9 way electrical plug and socket arrangement which may be keyed into a range of orientations. The plug and socket assemblies are supported from the rear by the cable entry arrangements.

The 9 way connectors are rated up to 250V a.c. 10A or 60V d.c. 2.5A.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Following disconnection, the energised power supply must only be connected to the connector part incorporating the socket connections.
2. The connector part containing the pin connections must not be connected to equipment containing a power supply or energy storage devices likely to cause the plug to remain energised after disconnection.
3. The protective caps are to be fitted immediately following separation.
4. The bulkhead connector is not to be fitted to enclosures/bulkheads where the interface temperature may exceed 80 °C. In addition the integral cables shall be mechanically protected.
5. When used in dust environments the bulkhead mounting thread, is to be sealed in accordance with the installation code of practice to ensure that an ingress protection level of IP6X is maintained.
6. Flameproof joints are not intended to be repaired
7. When IECEx certified cable entry devices are used in the 4/8 way and 9 way Instrumex connectors with threaded rear, the cable must be clamped and cleated to prevent pulling and twisting of the cable being transmitted to the terminations



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

Variation 13.1

To confirm that the equipment covered by this certificate has been reviewed and confirmed as being in compliance with the latest requirements of, IEC 60079-0:2011 Edition 6 and the EN equivalent, IEC 60079-7:2015 Edition 5.

Variation 13.2

To introduce alternative arrangement to rear components of InstrumEx, 9 way and 4/5 way CP/CR.

Variation 13.3

Allow the alternative intermediate clamping ring size B and C for the Instrumex 9 way CP/CR.

Variation 13.4

To reduce the dust temperature classification from T85°C to T80°C.

ExTR: GB/BAS/ExTR18.0068/00

File Reference: 18/0096