



# 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 SIR 09.0096X** issue No.:3  
Status: **Current**  
Date of Issue: **2014-06-10** Page 1 of 5

Certificate history:  
Issue No. 3 (2014-6-10)  
Issue No. 2 (2013-1-30)  
Issue No. 1 (2012-5-16)  
Issue No. 0 (2009-8-14)

Applicant: **EX Innovations Limited Trading as Raxton**  
Jepson Court  
Tancred Close  
Queensway  
Royal Leamington Spa  
Warwickshire CV31 3RZ  
United Kingdom

Electrical Apparatus: **Breather Drain Type CV**  
Optional accessory:


Type of Protection: **Increased Safety and Dust**

Marking: Ex e I/IIc Mb/Gb Ex e IIC Gb  
Ex tb IIIC Db IP66 Ex tb IIIC Db IP66  
Ta = -70°C to 150°C (Dependant on construction material and O-ring fitted, refer to Conditions of Certification)

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

Position: Certification Manager

Signature:  
(for printed version)

  
2014-6-10

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**  
Rake Lane  
Eccleston  
Chester  
CH4 9JN  
United Kingdom

**sira**  
CERTIFICATION



# IECEx Certificate of Conformity

Certificate No.: IECEx SIR 09.0096X

Date of Issue: 2014-06-10

Issue No.: 3

Page 2 of 5

Manufacturer: **EX Innovations Limited Trading as Raxton**  
Unit 1  
1 Kingsway South  
Aldridge  
Walsall WS9 8FS  
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 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 : 2007-10** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition: 5
- IEC 60079-7 : 2006-07** Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition: 4
- IEC 61241-1 : 2004** Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"  
Edition: 1

*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/ExTR09.0123/00](#)  
[GB/SIR/ExTR14.0136/00](#)

[GB/SIR/ExTR12.0107/00](#)

[GB/SIR/ExTR13.0009/00](#)

##### Quality Assessment Report:

[GB/SIR/QAR07.0016/01](#)  
[GB/SIR/QAR07.0016/04](#)

[GB/SIR/QAR07.0016/02](#)  
[GB/SIR/QAR07.0016/05](#)

[GB/SIR/QAR07.0016/03](#)



# IECEx Certificate of Conformity

Certificate No.: IECEx SIR 09.0096X

Date of Issue: 2014-06-10

Issue No.: 3

Page 3 of 5

## Schedule

### EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The CV Breather Drain Plugs each comprise a hollow brass body that is threaded at one end to enable it to be fitted to the bottom of the associated 'Ex e' enclosure. The body contains a press-fitted sintered disc that allows moisture to pass out of the enclosure via two drain holes. These holes exit into the hexagonal socket which shrouds the drain holes and also provides a means of tightening the device. The components are available with entry thread sizes between M16 and M32.

#### Design Options:

An alternative body profile with three drain holes, in sizes M25 and M32 only.

#### Alternative materials of manufacture:

Mild steel to BS 970:1983.

Stainless steel to BS 970:1983.

Glass filled nylon MDF2 900 (Not for Group I use).

#### Plating Options:

Nickel, Zink, Electroless.

Nickel maximum thickness 0.008mm.

#### Alternative threadforms in equivalent sizes:

Metric to ISO 965 PT 1 & 3.

PG to DIN 40430:1971.

BSP to BS 2279:1985.

ET to BS 31:1979.

NPS to ANSI/ ASME B1.20.1 -1983

Any other threadform conforming to Table 3 f IEC 60079-1 and clauses C.2.2 & C.2.3.1 as applicable

### CONDITIONS OF CERTIFICATION: YES as shown below:

1. The limiting temperature ranges of these devices depends upon the their material of manufacture and the type of 'O' ring used in their construction as defined by the manufacturer, the user shall therefore install these devices in accordance with temperature values stated in the table below:

'O'-ring Material	Limiting temperature	
	Brass, mild steel or stainless steel	Nylon MDF2 900
None	-50°C to +150°C	-50°C to +150°C
Nitrile	-20°C to +80°C	-20°C to +80°C
EPDM (fitted as standard)	-30°C to +125°C	-30°C to +125°C
Neoprene	-20°C to +100°C	-20°C to +100°C
Viton	-5°C to +150°C	-5°C to +150°C
Silicone	-30°C to +150°C	-30°C to +150°C
Fluorosilicone	-50°C to +150°C	-50°C to +150°C



# IECEx Certificate of Conformity

Certificate No.: IECEx SIR 09.0096X

Date of Issue: 2014-06-10

Issue No.: 3

Page 4 of 5

## EQUIPMENT(continued):

### Conditions of manufacture

The Manufacturer shall comply with the following:

1. The CV Breather Drain Plugs that are constructed of Glass Filled Nylon MDF2 900 shall not be marked with any information that indicates that they are suitable for Group I use.
2. The manufacturer shall take all reasonable steps to ensure that the user can comply with the special conditions for safe use and shall advise the user in respect of the materials that are used in the construction of the devices.
3. Only Glass Filled Nylon type MDF2 900 shall be used in the manufacture of the non-metallic CV breather drains.
4. These products shall be marked in accordance with the information as specified in this certificate and related reports.



# IECEX Certificate of Conformity

Certificate No.: IECEx SIR 09.0096X

Date of Issue: 2014-06-10

Issue No.: 3

Page 5 of 5

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

<b>Issue 1</b> – this Issue introduced the following changes:	
1	The original product description was amended to correct typographical errors and omissions.
2	The list of supporting standards was clarified.
3	The addition of the Glass Filled Nylon MDF2 900 material option to the Type CV Breather/Drain, the description and marking being amended accordingly.
4	The marking for use in explosive dust atmospheres was corrected.
5	The introduction of a Schedule of Limitations that clarifies the permitted temperature ranges.
<b>Issue 2</b> – this Issue introduced the following changes:	
1.	The recognition that the company name and address has changed from Raxton Ltd, Westgate, Aldridge, West Midlands WS9 8FS to EX Innovations Ltd., Trading as Raxton at Jepson Court, Tancred Close, Queensway, Royal Leamington Spa, Warwickshire CV31 3RZ.
2.	The introduction of a Condition of Manufacture.
<b>Issue 3</b> – this Issue introduced the following change:	
1.	The certificate was changed from a Component 'U' certificate into an Equipment certificate at this variation.