



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 07.0010X** issue No.: **5**

Status: **Current**

Date of Issue: **2013-09-05** Page 1 of 4

Certificate history:

Issue No. 5 (2013-9-5)
Issue No. 4 (2013-8-7)
Issue No. 3 (2013-1-30)
Issue No. 2 (2011-8-3)
Issue No. 1 (2008-12-4)
Issue No. 0 (2008-1-10)

Applicant: **EX Innovations Limited Trading as Raxton**

Jepson Court
Tancred Close
Queensway
Royal Leamington Spa
Warwickshire CV31 3RZ
United Kingdom

Electrical Apparatus: **Types AB & AJ Gland Adaptors and BB & BJ Gland Reducers**
Optional accessory:

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

Marking: Ex d I/IIC Mb/Gb
Ex e I/IIC Mb/Gb
Ex tb IIIC Db
Ta = -60°C to +200°C
Note: Reduced marking is applied in accordance with IEC 60079-0 Clause 29.10 remaining marking is detailed in the instructions.

Approved for issue on behalf of the IECEx
Certification Body:

C Ellaby

Position:

Deputy 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
Rake Lane
Eccleston
Chester
CH4 9JN
United Kingdom

sira
CERTIFICATION



IECEx Certificate of Conformity

Certificate No.: IECEx SIR 07.0010X

Date of Issue: 2013-09-05

Issue No.: 5

Page 2 of 4

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 60079-1 : 2007-04 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition: 6

IEC 60079-31 : 2008 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
Edition: 1

IEC 60079-7 : 2006-07 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition: 4

*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/ExTR07.0047/00
GB/SIR/ExTR13.0009/00

GB/SIR/ExTR07.0047/01
GB/SIR/ExTR13.0195/00

GB/SIR/ExTR10.0213/01

Quality Assessment Report:

GB/SIR/QAR07.0016/00
GB/SIR/QAR07.0016/03

GB/SIR/QAR07.0016/01
GB/SIR/QAR07.0016/04

GB/SIR/QAR07.0016/02



IECEx Certificate of Conformity

Certificate No.: IECEx SIR 07.0010X

Date of Issue: 2013-09-05

Issue No.: 5

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The **Types AB & AJ Adaptors and Types BB & BJ Reducers** are designed to convert an existing cable entry aperture, in the associated apparatus, to a different threadform and/or size. Each device comprises a hollow body with a male thread at one end and a female thread at the other. Entry threads are between M12 and M120. An increase of up to two step thread sizes is permitted on the AB & AJ Series, in addition, equal sizes are also allowed.

Design options

- * The materials of construction may be brass, stainless steel, mild steel or aluminium.
- * Entry threads may be Metric to ISO 965, Pg to DIN 40430, BSPP to BS 31, ET (British Conduit) to ET 31, NPT to ANSI/ASME B1.20.1 or threadforms complying with Table 3 of IEC 60079-1.

Conditions of manufacture

The Manufacturer shall comply with the following:

1. These products shall be marked in accordance with the information as specified in this certificate and related reports.
2. Products constructed from Aluminium:
 - shall not to be marked for Group I applications.
 - and plated shall be marked with the word Aluminium for identification.

CONDITIONS OF CERTIFICATION: YES as shown below:

The user and installer shall comply with the following Conditions of Certification:

1. When used for Increased Safety ('Ex e') applications, a suitable method of sealing to the associated enclosure shall be provided.
2. Products constructed from Aluminium are to be positioned where they are subject to low risk of mechanical impact only.



IECEX Certificate of Conformity

Certificate No.: IECEx SIR 07.0010X

Date of Issue: 2013-09-05

Issue No.: 5

Page 4 of 4

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

Issue 1 – this Issue introduced the following changes:	
1	The original associated report, GB/SIR/ExTR07.0047/00, was re-issued.
Issue 2 – this Issue introduced the following changes:	
1	Following appropriate re-assessment to demonstrate compliance with the requirements of the latest IEC 60079 series of standards, the documents originally listed, IEC 60079-0:2004 Ed 4, IEC 60079-1: 2003 Ed 5 and IEC 60079-7:2006-07 Ed 4, were replaced by those currently listed and appropriate marking was added.
Issue 3 – 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
Issue 4 – this Issue introduced the following changes:	
1	The size range of the Types AB & AJ Adaptors and Type BB & BJ Reducers was extended to include M12 threaded devices; the description was modified to recognise this change.
2	The Types AB & AJ Adaptors and Type BB & BJ Reducers were allowed to be made from aluminium grade 2011 or 6082 (HE30); NOTE: aluminium devices are not suitable for Group I Mining applications and shall not be marked as such.
3	The ambient temperature range of all metallic products was changed from -20°C to +40°C to -60°C to +200°C based on metallic construction and the use of no non-metallic parts.
4	The omission of the EPL marking was addressed.
Issue 5 – this Issue introduced the following changes:	
1.	ExTR no GB/SIR/ExTR10.0213/01 replaced ExTR no GB/SIR/ExTR10.0213/00.