



# 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 12.0038X** issue No.:1

Certificate history:  
Issue No. 1 (2013-1-30)  
Issue No. 0 (2012-6-7)

Status: **Current**

Date of Issue: **2013-01-30** Page 1 of 5

Applicant: **EX Innovations Ltd., Trading as Redapt**  
Jepson Court  
Tancred Close  
Queensway  
Royal Leamington Spa  
Warwickshire CV31 3RZ  
**United Kingdom**

Electrical Apparatus: **Type AD-E-4 Adapters, Type RE-E-4 Reducers, Types PD-E-4 Stopping Plugs**  
Optional accessory:

Type of Protection: **Increased Safety and Protection by Enclosure**

Marking: **Ex e IIC Gb**  
**Ex t IIIC Db IP 6X**

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

Position: **Certification Manager**

Signature:  
(for printed version)

Date:

2013-01-30

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



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Manufacturer: **EX Innovations Ltd., Trading as Redapt**  
Unit 1  
1 Kingsway South  
Westgate  
Aldridge 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 60079-31 : 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/ExTR12.0057/00](#)

[GB/SIR/ExTR13.0011/00](#)

##### Quality Assessment Report:

[GB/SIR/QAR06.0014/03](#)

[GB/SIR/QAR06.0014/04](#)

[GB/SIR/QAR06.0014/05](#)



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## Schedule

### EQUIPMENT:

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

**Types AD-E-4 Adaptors and Types RE-E-4 Reducers:** these devices 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. The AD-E-4 is a hexagon type adaptor. The RE-E-4 is a hexagon type reducer. Thread adaptors can have thread sizes between M20 and M75 and thread reducers between M25 and M75

**Types PD-E-4 Stopping Plugs:** these are a range of threaded stopping plugs that are used to fill unused entries in the associated apparatus. The PD-E-4 has a 'mushroom' head, the plugs can have thread sizes between M20 and M75

Material options

- Type Durethan BKV 30 N1 Glass Filled Nylon 6
- Type Durethan BKV 140 Glass Filled Nylon 6

Entry thread options

- Metric to BS 3643:1981
- ET Conduit to BS 31:1940
- PG to DIN 40430:1971
- BSP to BS 21:19
- NPT to ANSI/ASME B1.20.1-1983

Refer to Equipment (continued) for Conditions of Manufacture.

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

- 1 All entry devices shall only be installed where there is a low risk from mechanical impact.
- 2 The stopping plugs shall not be used with any form of adaptors or reducers.
- 3 Only one adaptor or reducer is to be used with any single cable entry on the associated equipment.
- 4 The interfaces between these devices and the associated enclosure cannot be defined; therefore, it is the user's responsibility to ensure that the appropriate ingress protection level is maintained at these interfaces.
- 5 When manufactured in BKV 30 NI type material, the entry devices are suitable for a service temperature range of -20°C to +65°C.
- 6 When manufactured in BKV 140 type material, the entry devices are suitable for a service temperature range of -20°C to +45°C; items made from this material are marked with 'BKV 140'.
- 7 When the entry devices are manufactured in BKV 140 type material, they shall be protected from exposure to light; items made from this material are marked with 'BKV 140'.



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## **EQUIPMENT(continued):**

### **Conditions of manufacture**

The Manufacturer shall comply with the following:

1. The female threads of adaptors shall be restricted to one size larger than the male thread size.
2. When these entry devices are manufactured in Type BKV 140 material, they shall be to be marked with BKV 140.
3. These products shall be marked in accordance with the information as specified in this certificate and related reports.



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

Issue 1 – this Issue introduced the following change:	
1.	The recognition that the company name and address has changed from Redapt Ltd, Westgate, Aldridge, West Midlands WS9 8FS to EX Innovations Ltd., Trading as Redapt at Jepson Court, Tancred Close, Queensway, Royal Leamington Spa, Warwickshire CV31 3RZ.
2.	The introduction of a Condition of Manufacture.