

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

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IECEx SIR 08.0024U

issue No.:3

Status:

Current

Date of Issue:

2013-01-30

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Certificate history: Issue No. 3 (2013-1-30) Issue No. 2 (2012-6-7) Issue No. 1 (2008-11-20) Issue No. 0 (2008-5-13)

Applicant:

EX Innovations Ltd., Trading as Redapt

Jepson Court Tancred Close

Queensway Royal Learnington Spa Warwickshire CV31 3RZ **United Kingdom**

Electrical Apparatus:

Breather / Drains

Optional accessory:

Type of Protection:

Ex e and dust

Marking:

Ex e I / II C Mb Gb Ex tb IIIC Db IP66

Ex e IIC Gb Ex tb IIIC Db IP66

Approved for issue on behalf of the IECEx

Certification Body:

A C Smith

Position:

Certification Manager

Signature:

(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.

This certificate is not transferable and remains the property of the issuing body.
 The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

SIRA Certification Service Rake Lane **Eccleston** Chester CH4 9JN **United Kingdom**





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Manufacturer:

EX Innovations Ltd., Trading as Redapt

Unit 1

1 Kingsway South Aldridge Walsall WS9 8FS

United Kingdom

Additional Manufacturing location

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 61241-0 : 2004

Electrical apparatus for use in the presence of combustible dust - Part 0: General

Edition: 1

requirements

IEC 61241-1 : 2004

Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by

Edition: 1

enclosures "tD"

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/ExTR08.0057/00

GB/SIR/ExTR08.0147/00

GB/SIR/ExTR12.0082/00

Quality Assessment Report:

GB/SIR/QAR06.0014/00 GB/SIR/QAR06.0014/03 GB/SIR/QAR06.0014/01 GB/SIR/QAR06.0014/04 GB/SIR/QAR06.0014/02 GB/SIR/QAR06.0014/05



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Breather/Drains are designed to allow moisture emission from Increased Safety Type 'Ex e' enclosures. Each device comprises a brass body with an M20, M25 or M32 entry thread. The body is machined such that a dust/moisture seal, manufactured from Hydrophilic Polyethylene or sintered bronze, can be pressed in place. Drainage channels through the body allow for the passage of moisture through the filter. The device may be screwed into the wall of an enclosure or into a through hole, being secured by a locknut.

Alternative materials of manufacture:

Groups I and II - Brass, mild steel or stainless steel

Group II only - Glass filled nylon (Durathon glass filled nylon BKV30) or aluminium

Alternative equivalent entry threads:

NPT, NPS BSPP, BSPT, Imperial Conduit, ET or Pg

O' ring seals:

'O' ring seals materials fitted into the Breather/Drain may be provided in Nitrile, Viton, EPDM, Neoprene, Silicone or Flurosilicone

Surface coating:.

The products may additionally be metallic plated to suit the application.

C	CONDITIONS OF CERTIFICATION: NO						
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EQUIPMENT(continued):		
Special points for notin	ng: refer to the annexe:	



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sue 1	- this Issue introduced the following changes:
sue 1	The drain holes were re-positioned and re-sized as defined in the associated ExTR, in consequence,
	the special point for noting that specifies the wall thickness of the associated enclosure has been removed
sue 2	- this Issue introduced the following change:
	The applicant has advised us that their address has been changed from Units 46 & 47, Darlaston
	Central Trading Estate, Salisbury Street, Darlaston, West Midlands WS10 8XB to that currently shown
sue 3	- this Issue introduced the following change:
	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.
	The introduction of a Condition of Manufacture.

Annexe: IECEx SIR 08.0024U_Issue3_Annexe.pdf

Annexe to:

IECEx SIR 08.0024U Issue 3

Applicant:

EX Innovations Ltd., Trading as Redapt

Apparatus:

Breather / Drains



O' ring seals

'O' ring seals materials fitted into the Breather/Drain may be provided in the following materials to suit the application:

Nitrile

EPDM

Silicone

Viton

Neoprene

Flurosilicone

Surface coating:

The products may additionally be metallic plated to suit the application.

Schedule of limitations

The end user shall note the following limitations:

- 1. The breather/drains are only suitable for bottom entry applications within associated increased safety enclosures having a minimum wall thickness of 3.0 mm.
- 2. The interfaces between the breather/drains and 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.
- 3. The clearance holes for metric male threaded products, suitable for clearance hole applications of Increased safety enclosures are to have a diameter of 0.3 to 0.5 mm larger than the major diameter of the male thread.
- 4. The products shall be selected for a temperature range at their point of mounting based upon the combination of interface seal and material of construction:

Construction material

Limiting temperature

Metallic body

Dependant on filter and seal material

Nylon body

-50°C to +125°C, unless limited by filter material

HDPE dust/moisture seal

-50°C to +85°C

Metallic dust/moisture seal

Dependant on body and interface material

Interface O-ring Material

Limiting temperature

Nitrile	-30°C to +100°C
EPDM	-50°C to +125°C
Neoprene	-40°C to +100°C
Viton	-20°C to +180°C
Silicone	-50°C to +180°C
Fluorosilicone	-70°C to +150°C

Conditions of manufacture

The Manufacturer shall comply with the following:

These products shall be marked in accordance with the information as specified in this
certificate and related reports.

Date: 14 January 2013

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Sira Certification Service

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Form 9530 Issue 1