



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 00ATEX3091X** Issue: **5**

4 Equipment: **AD-E-4 Series Adaptors, RD-E-4 Series Reducers and PD-E-4 Series Stopping Plugs**

5 Applicant: **EX Innovations Limited**

6 Address: Jepson Court **Trading as Redapt**
Tancred Close Unit 1, 1 Kingsway South
Queensway Aldridge
Royal Leamington Spa Walsall
Warwickshire CV31 3RZ West Midlands WS9 8FS
UK UK

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 60079-0:2006 EN 61241-0:2006
IEC 60079-0:2007 (For guidance with respect to marking) EN 61241-1:2004
EN 60079-7:2007

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC type-examination certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 2 GD
Ex e IIC Gb
Ex tb IIIC Db
IP6X

Project Number 29744

A C Smith
Certification Manager

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SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

The AD-E-4 and RD-E-4 Series are ranges of 'Ex e' hexagonal bodied Durethan BKV NI 30% Glass Filled Nylon 6 adaptors or reducers. Each comprises a hollow body with an external male thread and an internal female thread. The devices are used to convert an existing cable entry aperture to a different thread form and/or size. The body may optionally be fitted with an 'O' ring seal. Thread combinations are such that minimum wall thickness should be maintained.

The PD-E-4 Series is a range of 'Ex e' Durathon BKV 30 NI 30% Glass Filled Nylon 6 threaded stopping plugs each comprising a threaded body with a hexagonal socket for tightening. The devices are used to close unused apertures in associated component.

Design Options

Threadforms Options: ISO Metric (to BS3463)
PG to DIN40430
NPT (ANSI/ASME B1.20.1)
NPS (ANSI/ASME B1.20.1)
ISO Pipe Thread (BS21) BSPP/BSPT
Imperial conduit ET BS31
BSP to BS21
Any threadform conforming to Table 3 of BS EN 50018

Variation 1 - This variation introduced the following change:

- i. Following appropriate re-assessment to demonstrate compliance with the requirements of the EN 60079 series of standards, the documents originally listed in section 9, EN 50014:1997 (amendments 1 & 2), EN 50019:1994 and EN 50281-1-1:1998, were replaced by those currently listed, the markings in section 12 were updated accordingly and the conditions were modified to recognise the requirements of the latest standards.

Variation 2 - This variation introduced the following changes:

- i. 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.

Variation 3 - This variation introduced the following change:

- i. 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.
- ii. The introduction of a Condition of Certification/Manufacture.



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14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	File/Report no.	Comment
0	12 May 2000	R51X5208A	The release of the prime certificate.
1	1 November 2000	R51X5208B	Re-issued to allow report number R51X5208B to replace R51X5208A.
2	15 October 2008	R51L16567A	This Issue covers the following changes: <ul style="list-style-type: none">All previously issued certification was rationalised into a single certificate, Issue 2, Issues 0 and 1 referenced above are only intended to reflect the history of the previous certification and have not been issued as documents in this format.The introduction of Variation 1, as a result of the re-assessment, Special Conditions for Safe Use were introduced and therefore an 'X' suffix was added to the certificate number.
3	12 November 2009	R51A16567C	Re-Issued to amend the Special Conditions For Safe Use
4	28 May 2012	R27642A/00	The introduction of Variation 2.
5	15 January 2013	R29744A/00	The introduction of Variation 3.

15 SPECIAL CONDITIONS FOR SAFE USE (denoted by X after the certificate number)

15.1 The stopping plugs are not to be used with any form of adaptors or reducers.

15.2 Only one adaptor or reducer is to be used with any single cable entry on the associated equipment.

15.3 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.

15.4 At their point of mounting, these devices are suitable for use at either -20°C to +40°C or -5°C to +40°C when used with Viton 'O' rings.

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

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17 CONDITIONS OF CERTIFICATION

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.
- 17.3 The female threads of adaptors are restricted to one size larger than the male thread size.
- 17.4 These products shall be marked in accordance with the information as specified in this certificate and related reports.

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Certificate Annexe

Certificate Number: Sira 00ATEX3091X

Equipment: AD-E-4 Series Adaptors, RD-E-4 Series Reducers and PD-E-4 Series Stopping Plugs

Applicant: EX Innovations Ltd., Trading as Redapt



Issues 0 and 1

Number	Sheet	Rev.	Date	Description
99-12-NP1	1 of 1	2	Jun 00	EEx e Glass Filled Nylon Stopping Plugs
99-E-NAR1	1 of 1	1	-	EEx e II Certified G.F.N. Adaptors & Reducers
ATEX-01-PDM	1 of 1	1	22 Jun 00	Marking Arrangements For ATEX Products

Issue 2

Number	Sheet	Rev.	Date	Description
99-E-NAR1	1 of 1	2	18 Aug 08	Ex e II Certified G.F.N Adaptors & Reducers
99-12-NP1	1 of 1	3	18 Aug 08	Ex e Nylon Stopping Plug
IECEX MD-01	1 of 1	2	18 Aug 08	Marking

Issue 3 No new drawings were introduced.

Issue 4

Drawing No.	Sheets	Rev.	Date (Sira stamp)	Description
IECEX MD-01	1 of 1	3	18 May 12	Marking Drawing

Issue 5

Drawing No.	Sheets	Rev.	Date (Sira stamp)	Description
IECEX MD-01	1 of 1	4	14 Jan 13	Redapt Marking Label drawing

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