



1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 99ATEX1195U** Issue: **6**

4 Component: **AR-D Series 90° Adaptors**

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 component and any acceptable variation thereto are 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 component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of a component 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 60079-0:2009 EN 60079-1:2007 EN 60079-31:2009

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 The sign 'U' is placed after the certificate number to indicate that the product assessed is a component and may be subject to further assessment when incorporated into equipment. Any special conditions for safe use are listed in the schedule to this certificate.


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

12 The marking of the component shall include the following:



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

Project Number 29744


A C Smith
Certification Manager

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13 DESCRIPTION OF COMPONENT

The of AR-D range 'Ex d' Right Angle Adaptors each comprise a body with a male thread at one end and a female thread machined into the other at 90° to the male thread. The devices are designed to provide cable entry options where space is limited or to avoid cable damage. The devices may additionally be used to convert an existing cable entry aperture to a different threadform and/or size. Thread combinations are such that minimum wall thickness shall be maintained.

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 & BS4568

BSP to BS21

Any threadform conforming to Table 3 of BS EN 50018.

Material Options:

Brass BS EN 12163, BS EN 12164, BS EN 12167 (CZ121)

Mild Steel to BS970 (EN1A, EN3B)

Stainless Steel to BS970 (316)

Plating Options:

Metallic variants may be suitably plated to the appropriate British, European or ISO recognised standards.

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 50018:1994 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.
- ii. The option to use aluminium as a material of construction was removed.

Variation 2 - This variation introduced the following change:

- i. The use of aluminium to BS 1474, 6082T6, as a material of manufacture was approved.
- ii. Following appropriate re-assessment to demonstrate compliance with the requirements of the latest standards, the documents previously listed in section 9, EN 60079-0:2006, IEC 60079-0:2007 (For guidance with respect to marking,) EN 61241-0:2006 and EN 61241-1:2004, were replaced by EN 60079-0:2009 and EN 60079-31:2009.

Variation 3 - 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.



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Variation 4 - 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.

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.
3	12 November 2009	R51A16567C	Re-Issued to amend the Special Conditions For Safe Use
4	18 July 2011	R19964A/00	The introduction of Variation 2.
5	28 May 2012	R27642A/00	The introduction of Variation 3.
6	15 January 2013	R29744A/00	The introduction of Variation 4.

15 SPECIAL CONDITIONS FOR SAFE USE

- 15.1 Only one adaptor or reducer is to be used with any single cable entry on the associated equipment.
- 15.2 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.
- 15.3 At their point of mounting, these devices are approved for use at -50°C to +180°C.

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 In accordance with EN 60079-1:2007, the coating on joint surfaces of metallic devices that are electroplated shall be no more than 0.008 mm thick.
- 17.4 The female threads of adaptors are restricted to one size larger than the male thread size.
- 17.5 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 99ATEX1195U

Component: AR-D Series 90° Adaptors

Applicant: EX Innovations Ltd., Trading as Redapt



Issues 0 and 1

Drawing No.	Sheet	Rev.	Date	Description
92-D-90	1 of 1	2	Jun 00	EEx d IIC 90° Right Angle Adaptors
ATEX-01-PDM	1 of 1	1	22 Jun 00	Marking Arrangements For ATEX PRODUCTS

Issue 2

Drawing No.	Sheet	Rev.	Date (Sira stamp)	Description
92-F-90	1 of 1	2	18 Aug 08	Ex d IIC 90° Adapter/Reducer
IECEx MD-01	1 of 1	2	18 Aug 08	Marking

Issue 3 No new drawings were introduced

Issue 4

Drawing No.	Sheet	Rev.	Date (Sira stamp)	Description
92-F-90	1 of 1	3	14 Apr 11	Ex d IIC 90° Adapter/Reducer

Issue 5

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

Issue 6

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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