



1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 99ATEX1113X** Issue: **7**

4 Equipment: **PA-D series and PB-D 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 60079-0:2009 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 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:



I M2
II 2 GD
Ex d I/IIC Mb 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 PA-D and PB-D stopping plugs are used to fill unused entries in associated apparatus. They are normally manufactured in brass to BS2874.

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.

Material Options: Brass BS 2874 (CZ121)
Mild Steel BS970 (EN1A)
Stainless Steel 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 changes:

- 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 and 2), PrA1 EN 50018:1999 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; a new condition of manufacture was introduced as a result of this change.
- 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.

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.

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Sira Certification Service

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14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report no.	Comment
0	12 May 2000	R51X5208A	The release of the prime certificate.
1	2 August 2000	N.A.	Re-issued to permit the addition of 'C' to the group II coding, to include the standard EN 50281-1-1:1998 for dust, to clarify the description of the equipment, to recognise the latest issues of the drawings and to introduce a condition of certification.
2	1 November 2000	R51X5208B	Re-issued to allow report number R51X5208B to replace R51X5208A.
3	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 3, Issues 0 to 2 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.
4	12 November 2009	R51A16567C	Re-issued to amend the Special Conditions For Safe Use.
5	18 July 2011	R19964A/00	The introduction of Variation 2.
6	28 May 2012	R27642A/00	The introduction of Variation 3.
7	14 January 2013	R29744A/00	The introduction of Variation 4.

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

15.1 These devices shall not be used with any form of adaptors or reducers.

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 suitable for use at -50°C to +180°C.

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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.

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 When manufactured in aluminium, the components shall not be marked for use in Group I applications.
- 17.5 These products shall be marked in accordance with the information as specified in this certificate and related reports.

Certificate Annexe

Certificate Number: Sira 99ATEX1113X
Equipment: PA-D series and PB-D Series Stopping Plugs
Applicant: EX Innovations Ltd., Trading as Redapt



Issues 0 to 2

Drawing No.	Sheet	Rev.	Date	Description
80-A-6	1 of 1	2	Jun 00	EEx d IIC Certified Stopping Plugs
80-A-6B	1 of 1	2	Jun 00	EEx d IIC Certified Stopping Plugs
ATEX-01-PDM	1 of 1	-	22 Jun 00	Marking Arrangements For ATEX Products

Issue 3

Drawing No.	Sheet	Rev.	Date (Sira stamp)	Description
80-B-6	1 of 1	2	18 Aug 08	Ex d I & IIC Parallel Stopping Plugs
80-B-6B	1 of 1	2	18 Aug 08	Ex d I & IIC Tapered Stopping Plugs
IECEx MD-01	1 of 1	2	18 Aug 08	Marking

Issue 4 No new drawing were introduced

Issue 5

Drawing No.	Sheet	Rev.	Date (Sira stamp)	Description
80-B-6	1 of 1	3	14 Apr 11	Ex d I & IIC Parallel Stopping Plugs

Issue 6

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

Issue 7

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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