



1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 10ATEX1275U** Issue: **1**

4 Component: **Type T Inline and Swivel Adaptors**

5 Applicant: **Redapt Engineering Limited**

6 Address: **Units 46 & 47 Darlaston Central Trading Estate
Salisbury Street
Darlaston
West Midlands
WS10 8XB
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 60079-7:2007 IEC 60079-31:2008

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:



**I M 2 (not aluminium)
Ex d Ex e IIC Gb
Ex d Ex e I Mb (not aluminium)
Ex tb IIIC Db IP 6X -20°C to +60°C**



**II 2 G D
Ex d Ex e IIC Gb
Ex d Ex e I Mb (not aluminium)
Ex tb IIIC Db IP 6X -20°C to +60°C**

Project Number 21941
C. Index 07

D R Stubbings BA MIET
Certification Manager

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Sira Certification Service

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SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 10ATEX1275U
Issue 1

13 DESCRIPTION OF COMPONENT

The range of inline and 90° swivel adapters are designed to convert existing cable entries to different thread forms and/or sizes. Threads available are between M20 and M75.

Each device comprises of two threaded entry parts and a 'spinning' internal component. The components are assembled such that flamepaths are formed at both entry threads and around the spinning components and such that connection at both ends is achieved without twisting the cable.

The range of inline and 90° swivel adapters can be fitted within an Ex d, Ex e or Ex tb enclosure or any combination provided the applicable Code of Practice is complied with.

The adapters, when installed in accordance with the manufacturer's instructions, are capable of providing, with an enclosure on which they are fixed, an ingress protection rating of IP 66.

Type designations:

Inline:

Male/Female: TA
Female/Female: TC
Male/Male: TD

90 deg:

Male/Female: TP
Female/Female: TQ
Male/Male: TR

Material Options:

Brass to BS 2874:1985 & CZ 121
Stainless Steel to BS 970 Part 4:1970 & 316
Mild Steel to BS 970 Part 1:1983 & 220 MO7
Aluminium to BS 1474:1987 & 6082T6
Aluminium Bronze to BS 1400:AB2

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	22 September 2010	R21941A/00	The release of the prime certificate.

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SCHEDULE

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15 SPECIAL CONDITIONS FOR SAFE USE

15.1 The following service temperature range limitations apply:

Type of protection	Service Temperature
Ex d I Mb	-20°C to +60°C*
Ex e I Mb	-50°C to +150°C*
Ex d IIC Gb	-20°C to +60°C*
Ex e IIC Gb	-50°C to +200°C*
Ex tb IIIC Db	-50°C to +200°C*

* Unless fitted with an interface sealing O-ring with lower properties, temperatures shall then be limited as per the manufacturers instructions

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.

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Certificate Annexe

Certificate Number: Sira 10ATEX1275U
Component: Type T Inline and Swivel Adaptors
Applicant: Redapt Engineering Limited



Issue 0

Drawing No.	Sheets	Rev.	Date (Sira Stamp)	Title
10-T-IL	1 of 1	1	22 Sep 10	Swivel Adapter T Series In Line
10-T-90	1 of 1	1	22 Sep 10	Swivel Adapter T Series 90°
10-SA	1 of 1	2	22 Sep 10	Marking Details

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