



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

D R Stubbings BA MIET  
Certification Manager

Project Number 21941  
C. Index 07

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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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Issue 1**

**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.

# 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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