



**EC TYPE-EXAMINATION CERTIFICATE**

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

Certificate Number: **Sira 10ATEX1056U** Issue: **3**

Component: **Angled, Inline and Twin Inlet Swivel Adapters**

Applicant: **EX Innovations Limited**

Address: **Jepson Court                      Trading as Raxton**  
**Tancred Close                      Kingsway South**  
**Queensway                      Westgate**  
**Royal Leamington Spa                      Aldridge**  
**Warwickshire CV31 3RZ                      West Midlands WS9 8FS**  
**UK                      UK**

This component and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

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.

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

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.

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.

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.

The marking of the component shall include the following:



**I M 2 (not aluminium)**  
**Ex d I Mb Ex e I Mb**



**II 2 G D**  
**Ex d IIC Gb Ex e IIC Gb**  
**Ex tb IIIC Db IP 6X**  
**Ta = -20°C to +60°C**

Project Number    29745

A C Smith  
Certification Manager

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## SCHEDULE

### EC TYPE-EXAMINATION CERTIFICATE

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#### 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: FA

Female/Female: FC

Male/Male: FD

90 deg:

Male/Female: FP

Female/Female: FQ

Male/Male: FR

#### 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 M07

Aluminium to BS 1474:1987 & 6082T6

Aluminium Bronze to BS 1400:AB2

**Variation 1** - This variation introduced the following change:

- i. The Twin Inlet Swivel Adapters were added to the range.

**Variation 2** - This variation introduced the following change:

- i. The recognition that the company name and address has changed from Raxton Ltd, Westgate, Aldridge, West Midlands WS9 8FS to EX Innovations Ltd., Trading as Raxton at Jepson Court, Tancred Close, Queensway, Royal Leamington Spa, Warwickshire CV31 3RZ.
- ii. The introduction of a Condition of Certification.



## SCHEDULE

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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	27 May 10	R20674A/00	The release of prime certificate.
1	08 September 2010	N/A	Re-issued to clarify the description
2	03 August 2012	R26389A/00	This Issue covers the following changes: <ul style="list-style-type: none"><li>The marking was amended to be in line with the original report.</li><li>The introduction of Variation 1.</li></ul>
3	15 January 2013	R29745A/00	The introduction of Variation 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.

17.3 These products shall be marked in accordance with the information as specified in this certificate and related reports.

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Form 9401 Issue1

## Certificate Annexe

Certificate Number: Sira 10ATEX1056U  
Component: Angled, Inline and Twin Inlet Swivel Adapters  
Applicant: EX Innovations Limited Trading as Raxton

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### Issue 0

Drawing	Sheets	Rev.	Date (Sira Stamp)	Title
840	1 of 1	2	07 Apr 10	Swivel Adapter F Series
840-90	1 of 1	2	07 Apr 10	Swivel Adapter F Series
841	1 of 1	3	30 Apr 10	Marking Details

Issue 1 No new drawings were introduced.

### Issue 2

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
8—A	1 of 1	1	01 Aug 12	Twin Inlet Swivel/Integral Adaptor

### Issue 3

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
MD - 01	1 of 1	1	14 Jan 13	Raxton Marking Label Drawing

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Form 9401 Issue 1

## Sira Certification Service

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