



1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 13ATEX3091X** Issue: **0**

4 Equipment: **9500 Range of Junction Boxes**

5 Applicant: **Flameproof Electrical Enclosures Ltd**

6 Address: **1-1A St Martin's Industrial Estate
Tat Bank Road
Oldbury
West Midlands B69 4NP
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 60079-0:2012

EN 60079-7:2007

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:

Glass Reinforced Polyester Enclosure



II 2 GD

Ex e IIC T6 Gb Ta =-40°C to +40°C

Ex e IIC T5 Gb Ta =-40°C to +50°C

Ex tb IIIC T85°C Db Ta =-40°C to 40°C

Ex tb IIIC T100°C Db Ta =-40°C to 50°C

Fortron PPS 1140 L4 Enclosure



II 2 GD

Ex e IIC T5 Gb Ta =-40°C to +55°C

Ex e IIC T3 Gb Ta =-40°C to +130°C

Ex tb IIIC T100°C Db Ta =-40°C to 55°C

Ex tb IIIC T150°C Db Ta =-40°C to 130°C

Project Number 29187

C Ellaby
Deputy Certification Manager

This certificate and its schedules may only be reproduced in its entirety and without change.

Sira Certification Service

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SCHEDULE

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Issue 0

13 DESCRIPTION OF EQUIPMENT

The 9500 range of Junction Boxes comprise a 180 mm wide x 180 mm wide x 92.5 mm high enclosure manufactured from glass reinforced polyester or Fortron PPS 1140 L4. The enclosure has a removable lid secured by four captive M5 x 20 long socket head cap screws which is sealed with a Silicon rubber seal located in a groove in the lid. The enclosure is fitted with an M6 internal/external earth assembly that is manufactured from brass and can be fitted with an equipment mounting plate, an internal earth continuity plate is also an option. Cable entries can be fitted on any of the four main sides. The enclosure meets an ingress protection level of IP66.

The terminals may be used in any combination subject to the calculation of maximum dissipated power in accordance with IEC/EN 60079-7 and the conditions of certification listed, a maximum dissipated power rating of 7.2 W is assigned for this purpose.

The junction box is rated for supplies up to a maximum of 693 V, depending on the terminals installed.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report no.	Comment
0	2 September 2013	R29187A/00	The release of the prime certificate.

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

- 15.1 This enclosure is non-conducting and may generate an ignition-capable level of electrostatic charges under certain extreme conditions. The user should ensure that it is not installed in a location where it may be subjected to external conditions (such as high-pressure steam) which might cause a build-up of electrostatic charges on non-conducting surfaces. Additionally, cleaning of the equipment should be done only with a damp cloth.

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 The dissipated power of a each junction box terminal configuration shall be calculated in accordance with IEC 60079-7: 2007 Annex E, E2 and this shall not exceed the maximum dissipated power rating of the enclosure, (7.2 W).

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SCHEDULE

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Issue 0

- 17.4 The following routine test applies to enclosures supplied by Flameproof Electrical Enclosures Ltd that have been wired at the manufacturer's premises.
- A dielectric strength test of 2 x rated voltage +1000V rms +5%/-0% (minimum 1500V) shall be applied between live parts and earth for at least 60. Alternatively, the test voltage shall be 1.2 x this maximum value and the duration shall be 100mS.
- 17.5 A minimum clearance of 10 mm shall be maintained between bare conductive parts at different potentials.
- 17.6 The maximum voltage rating marked on the enclosure shall not exceed 693 V or the lowest maximum voltage rating of the terminals fitted into the enclosure, whichever is lower.
- 17.7 The terminals shall have an operating temperature of at least 80°C for T6 equipment, 100°C for T5 equipment and ceramic terminals shall be fitted for T3 equipment.
- 17.8 The products covered by this report incorporate previously certified devices, it is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with these devices, and the manufacturer shall inform Sira of any modifications of the devices that may impinge upon the explosion safety design of the products.
- 17.9 Only terminals having the appropriate certification and listed on drawing 9500/02 shall be installed. The terminals shall be installed in accordance with the conditions specified on their certificate and the manufacturer's instructions.
- 17.10 All entry holes must have a minimum of 15 mm material between adjacent holes and also 15 mm from the edge of the enclosure.

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Certificate Annexe

Certificate Number: Sira 13ATEX3091X
Equipment: 9500 Range of Junction Boxes
Applicant: Flameproof Electrical Enclosures Ltd



Issue 0

Drawing No.	Sheets	Rev.	Date (Sira Stamp)	Title
9500/02	1 to 3	A	18 Jul 13	Enclosure Terminal Combinations
9500/05	1 of 1	B	02 Aug 13	Range 9500 Certification Labels
9500/06	1 of 1	C	02 Aug 13	Range 9500 Certification Labels
9500/07	1 of 1	C	02 Aug 13	Range 9500 Alternative Certification Labels
9500/08	1 of 1	C	02 Aug 13	Range 9500 Trade Agent Labels
9500/09	1 of 1	C	02 Aug 13	Range 9500 Alternative Trade Agent Labels
9500/12	1 of 1	B	02 Aug 13	Range 9500 Junction Box Terminal Arrangements

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