



1 EC TYPE-EXAMINATION CERTIFICATE

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

3 Certificate Number: Sira 08ATEX1046X Issue: 2

4 Equipment: 6*** Series Temperature and Pressure Switches Utilising the

46-XXXXXXX Electrical Assembly

5 Applicant: Custom Control Sensors Inc.

6 Address: 21111 Plummer Street

Chatsworth CA 91311 USA

- 7 This equipment and any acceptable variation thereto is 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 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

- 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.
- 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.
- The marking of the equipment shall include the following:



II 2 G D

Ex d IIC T5 Ex t IIIC T100°C Db IP66/7 Tamb -40°C to +86°C Ex d IIC T6 Ex t IIIC T85°C Db IP66/7 Tamb -40°C to +71°C

Project Number 22319

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

C. L

C Ellaby
Deputy Certification Manager

Sira Certification Service

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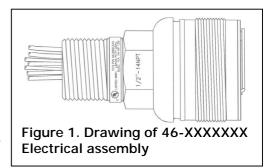
SCHEDULE

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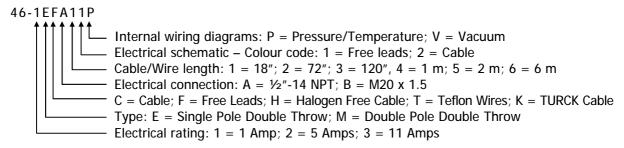
13 DESCRIPTION OF EQUIPMENT

The 46-XXXXXXX Series Electrical Assembly as detailed in Figure 1, is a range of hermetically sealed switching devices that are activated by a belleville disc-spring that snaps over centre at a predetermined force. They are of basic cylindrical shape with a hexagonal section in the middle. One end of the equipment contains a diaphragm actuator assembly, the other end is 1/2"-14NPT or M20 x 1.5 male threaded portion that contains a potting compound through which the equipment wiring passes. The internal switch may be either single pole double throw or double pole double throw with the electrical ratings of 1 A, 5 A or 11 A.



Design options and model references

Electrical assembly can be a solid cap machined construction.



Variation 1 - This variation introduced the following changes:

i. The recognition of minor drawing modifications; these changes are administrative and do not affect the aspects of the product that are relevant to explosion safety.

Variation 2 - This variation introduced the following changes:

- i. Following appropriate re-assessment to demonstrate compliance with the requirements of the latest EN 60079 series of standards, the documents originally listed, EN 60079-0:2006, EN 60079-1:2007, EN 61241-0:2004 and EN 61241-1:2004, were replaced by those currently listed in section 1.7, the markings in section 12 were updated accordingly to recognise the requirements of the latest standards.
- ii. The lower ambient temperature limit was increased from -34°C to -40°C.
- iii. The use of an alternative putty compound was endorsed.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

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SCHEDULE

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14.2 Associated Sira Reports and Certificate History

Issue	Date	Report No.	Comment
0	4 August 2008	R51A12196A	The release of the prime certificate.
1	6 October 2008	R51A18968A	This Issue covers the following changes:
		R51A12196B	The introduction of Variation 1.
			Report number R51A12196B replaced R51A12196A.
2	25 May 2011	R22319A/00	The introduction of Variation 2.

- 15 SPECIAL CONDITIONS FOR SAFE USE (denoted by X after the certificate number)
- 15.1 The 6**** Series Temperature and Pressure Switches utilising the 46-XXXXXXX Electrical Assembly shall be installed such that the field wiring is protected from mechanical damage and is not be subjected to tension or torque. If the field wiring is terminated in an explosive atmosphere, then a suitably certified termination facility shall be used.
- 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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Sira Certification ServiceRake Lane, Eccleston, Chester, CH4 9JN, England

Certificate Annexe

Certificate No.: Sira 08ATEX1046X

Equipment: 6**** Series Temperature and Pressure Switches

Utilising the 46-XXXXXXX Electrical Assembly

Applicant: Custom Control Sensors International



Issue 0

Drawing	Sheets	Rev.	Date (Sira stamp)	Description
46-XEXXXXX	1 of 5	Α	24 Jul 08	Electrical Assy
46-XDXXXXX	2 of 5	Α	24 Jul 08	Electrical Assy
46-XEXXXXX	3 of 5	Α	24 Jul 08	Electrical Assy
46-XDXXXXX	4 of 5	Α	24 Jul 08	Electrical Assy
46-XXXXXXX	5 of 5	Α	24 Jul 08	Electrical Assy

Issue 1

Drawing	Sheets	Rev.	Date (Sira stamp)	Description
46-XXXXXXX	1 of 5	В	01 Oct 08	Electrical Assy
46-XXXXXXX	2 of 5	В	01 Oct 08	Electrical Assy
46-XXXXXXX	3 of 5	В	01 Oct 08	Electrical Assy
46-XXXXXXX	4 of 5	В	01 Oct 08	Electrical Assy
46-XXXXXXX	5 of 5	В	01 Oct 08	Electrical Assy

Issue 2

Drawing	Sheets	Rev.	Date (Sira Stamp)	Title
46-XXXXXXX	1 of 5	D	16 May 11	Electrical Assy
46-XXXXXXX	2 of 5	D	16 May 11	Electrical Assy
46-XXXXXXX	3 of 5	D	16 May 11	Electrical Assy
46-XXXXXXX	4 of 5	D	16 May 11	Electrical Assy
46-XXXXXXX	5 of 5	D	16 May 11	Electrical Assy

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