



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx SIR 10.0193X issue No.:0 Certificate history:-----

Status: **Current**

Date of Issue: 2011-06-27 Page 1 of 3

Applicant: **Custom Control Sensors Inc.**
21111 Plummer Street
Chatsworth
California 91311
United States of America

Electrical Apparatus: **6**** Series Pressure and Temperature Switches**
Optional accessory:

Type of Protection: **Flameproof and Dust**

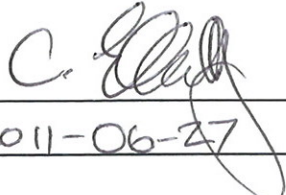
Marking: **Ex d IIC T6 Gb**
Ex t IIIC T85°C Db IP66/7
Tamb = -40°C to 71°C
or
Ex d IIC T5 Gb
Ex t IIIC T100°C Db IP66/7
Tamb = -40°C to 86°C

Approved for issue on behalf of the IECEx Certification Body: C Ellaby

Position: Deputy Certification Manager

Signature:
(for printed version)

Date:



2011-06-27

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

SIRA Certification Service
Rake Lane
Eccleston
Chester
CH4 9JN
United Kingdom

sira
CERTIFICATION



IECEX Certificate of Conformity

Certificate No.: IECEX SIR 10.0193X

Date of Issue: 2011-06-27

Issue No.: 0

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Manufacturer: **Custom Control Sensors Inc.**
21111 Plummer Street
Chatsworth
California 91311
United States of America

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

- IEC 60079-0 : 2007-10** Explosive atmospheres - Part 0:Equipment - General requirements
Edition: 5
- IEC 60079-1 : 2007-04** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition: 6
- IEC 60079-31 : 2008** Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
Edition: 1

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[GB/SIR/ExTR11.0109/00](#)

Quality Assessment Report:

[GB/BAS/QAR11.0005/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The 46-XXXXXXX Series Electrical Assembly 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

Refer to the Annexe for Design options and coding

CONDITIONS OF CERTIFICATION: YES as shown below:

- 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.

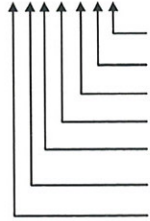
Annexe to: IECEx SIR 10.0193X Issue 0
Applicant: Custom Control Sensors Inc.
Apparatus: 6**** Series Pressure and Temperature Switches



Design options and model references

Electrical assembly can be a solid cap machined construction.

46-1EFA11P



Internal wiring diagrams: P = Pressure/Temperature; V = Vacuum
Electrical schematic – Colour code: 1 = Free leads; 2 = Cable
Cable/Wire length: 1 = 18"; 2 = 72"; 3 = 120", 4 = 1 m; 5 = 2 m; 6 = 6 m
Electrical connection: A = 1/2"-14 NPT; B = M20 x 1.5
C = Cable; F = Free Leads; H = Halogen Free Cable; T = Teflon Wires; K = TURCK Cable
Type: E = Single Pole Double Throw; M = Double Pole Double Throw
Electrical rating: 1 = 1 A; 2 = 5 A; 3 = 11 A