



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX BAS 19.0098X** Page 1 of 4 [Certificate history:](#)  
Issue 0 (2019-10-09)

Status: **Current** Issue No: 1

Date of Issue: 2023-04-17

Applicant: **Delta Mobrey Limited**  
Hudson House  
Albany Park  
Surrey  
Camberley GU16 7PL  
**United Kingdom**

Equipment: **CS-Series pressure switch**

Optional accessory:

Type of Protection: **Flameproof and protection by enclosure or intrinsically safe**

Marking: **Ex db IIC T\* Gb (Tamb -40°C to +\*°C)**  
**Ex tb IIIC T\* Db (Tamb -40°C to +\*°C)**  
**(See Schedule) or**  
**Ex ia IIC T6 Ga (Tamb -40°C to +60°C)**  
**Ex ia IIC T4 Ga (Tamb -40°C to +85°C)**

Approved for issue on behalf of the IECEx  
Certification Body:

**Mr R S Sinclair**

Position:

**Technical Manager**

Signature:  
(for printed version)

Date:  
(for printed version)

17/4/2023

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2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

**SGS UK Limited**  
**Rockhead Business Park**  
**Staden Lane**  
**Buxton, Derbyshire SK17 9RZ**  
**United Kingdom**





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Certificate No.: **IECEX BAS 19.0098X**

Page 2 of 4

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Manufacturer: **Delta Mobrey Limited**  
Hudson House  
Albany Park  
Surrey  
Camberley GU16 7PL  
**United Kingdom**

Manufacturing locations: **Delta Mobrey Limited**  
Hudson House  
Albany Park  
Surrey  
Camberley GU16 7PL  
**United Kingdom**

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 equipment 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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[IEC 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

This Certificate **does not** indicate compliance with 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 Reports:

[GB/BAS/ExTR19.0264/00](#)

[GB/BAS/ExTR23.0063/00](#)

Quality Assessment Report:

[GB/BAS/QAR06.0033/11](#)



# IECEX Certificate of Conformity

Certificate No.: **IECEX BAS 19.0098X**

Page 3 of 4

Date of issue: 2023-04-17

Issue No: 1

## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

### When marked flameproof the description is:

The CS Series, Model CS2 and CS4, Pressure Switch enclosure is constructed from stainless steel. A maximum of two hermetically sealed micro-switch assemblies are secured within the enclosure via spot welding. Electrical connections are by means of permanently attached leads which are connected to the hermetically sealed micro-switches and pass through a potting compound at the top of the enclosure. A diaphragm pressure sensor is welded to the base of the enclosure. A lever is positioned on either side of the diaphragm; the external part of the lever when pushed makes the internal connection, powering the equipment.

The equipment has a maximum electrical rating of 250 VAC, 11 A.

The equipment may in addition be marked with ambient and T Class combinations as below:

Rating	T Class (Gas / Dust)	Ambient range
Up to 11A	T6 / T85°C	-40°C to +45°C
	T4 / T135°C	-40°C to +85°C
Up to 5A	T6 / T85°C	-40°C to +60°C
	T4 / T135°C	-40°C to +85°C

### When marked Intrinsically Safe the description is:

The Pressure Switch enclosure is constructed from stainless steel and is designed to be connected to intrinsically safe circuits. The internal microswitches are operated via a snapswitch diaphragm, which is not directly exposed to the process pressure. The snapswitch diaphragm is operated by a push rod, spring, piston and another process diaphragm. Electrical connection to the microswitches is via the integral cable, which is connected to the internal terminals and potted within the enclosure. The microswitches are SPDT (single pole / double throw) or DPDT (double pole / double throw) switches and all the electrical connections form part of the same intrinsically safe circuit

The equipment has the following entity parameters (when fitted either with one or two microswitches):

**Ui = 30 V, li = 300 mA, Ci = 1 nF, Li = 6.3 µH**

### SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The Flameproof and Dust versions of the product shall be installed in such a manner that the equipment wiring is protected from mechanical damage by the use of metal conduit or an equivalent method, to prevent the wiring from being subjected to tension or torque. If it is to be terminated within a potentially explosive atmosphere, a suitably certified termination facility must be used, e.g. within an Ex d IIC Gb certified enclosure.
2. CS-Series pressure switch is to be installed into equipment which is suitably earthed..
3. The Intrinsically Safe versions of the product are not capable of withstanding the 500 Vrms insulation test required by clause 6.3.13 of IEC 60079-11:2011. This shall be taken into account when installing the equipment.



# IECEX Certificate of Conformity

Certificate No.: **IECEX BAS 19.0098X**

Page 4 of 4

Date of issue: 2023-04-17

Issue No: 1

## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

### Variation 1.1

This new issue was raised in order to record a change of the address of the applicant and manufacturer. A technical review of the certificate was not undertaken.

ExTR: <b>GB/BAS/ExTR23.0063/00</b>	File Reference: <b>22/0706</b>
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