

1 **EU - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres  
Directive 2014/34/EU**

3 EU - Type Examination Certificate Number: **SGS19ATEX0113X – Issue 1**

4 Product: **CS-Series pressure switch**

5 Manufacturer: **Delta Mobrey Ltd**

6 Address: **Hudson House, Albany Park, Camberley, Surrey, GU16 7PL  
United Kingdom**

7 This re-issued certificate extends EU Type Examination Certificate No. **SGS19ATEX0113X** to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

8 SGS Fimko Oy, Notified Body number 0598, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. **See Certificate History**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-11:2012 EN 60079-31:2014**


except in respect of those requirements listed at item 18 of the Schedule.

10 If the sign “X” is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

11 This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following :

 **II 2 GD**

Or  **II 1 G**

**Ex db IIC T\* Gb (Tamb -40°C to +\*°C)**

**Ex ia IIC T6 Ga (Tamb -40°C to +60°C)**

**Ex tb IIIC T\* Db (Tamb -40°C to +\*°C) (see Schedule)**

**Ex ia IIC T4 Ga (Tamb -40°C to +85°C)**

SGS Fimko Oy Customer Reference No. **0279**

Project File No. **22/0706**

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## Schedule

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### Certificate Number SGS19ATEX0113X – Issue 1

#### 15 Description of Product

##### When marked flameproof the description is:

The CS Series, Model CS2 and CS4, Pressure Switch enclosure is constructed from 300 series 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 300 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):

$U_i = 30 \text{ V}$      $I_i = 300 \text{ mA}$      $C_i = 1 \text{ nF}$      $L_i = 6.3 \text{ } \mu\text{H}$

#### 16 Report Number

See Certificate History.

#### 17 Specific Conditions of Use

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 EN 60079-11:2012. This shall be taken into account when installing the equipment.

## 18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product:

Clause	Subject
1.4.1	External effects
1.4.2	Aggressive substances, etc.

## 19 Drawings and Documents

Drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
14969	1 to 2	F	31/03/2023	Ex ia – ATEX & IECEX Approval drawing Compact series schedule drawing
14984	1 to 2	F	31/03/2023	Ex d – ATEX & IECEX Approval drawing Compact series schedule drawing

These drawing are common to, and are held on, IECEX BAS 19.0098X

## 20 Certificate History

Certificate No.	Date	Comments
SGS19ATEX0113X	9 October 2019	The release of the prime certificate. The associated test and assessment against the requirements of EN IEC 60079-0:2108, EN 60079-1:2014, EN60079-11 & EN 60079-31:2014 and is documented in Test Report No. GB/BAS/ExTR19.0264/00.
SGS19ATEX0113X Issue 1	11 April 2023	This new issue was raised in order to record a change of address of the manufacturer. A technical review of the certificate was not undertaken and a report was not prepared.

For drawings applicable to each issue, see original of that issue.