

1 **UK-TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
UKSI 2016:1107 (as amended) – Schedule 3A, Part 1**

3 UK-Type Examination Certificate Number: **SGS24UKEX0097 Issue 0**

4 Product: **Sovereign Series Pressure Switches**

5 Manufacturer: **Delta Mobrey Limited**

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

7 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 SGS United Kingdom Ltd. (formerly SGS Baseefa Ltd.), Approved Body number 1180, in accordance with Regulations 42 and 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), 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 Schedule 1 of the Regulations.

The examination and test results are recorded in a confidential report identified in the revision table at item 20.


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

EN IEC 60079-0:2018 EN 60079-11: 2012

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 UK-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations 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 1G Ex ia IIC T6 Ga (-25°C ≤ Ta ≤ +60°C) or T5 Ga (-60°C ≤ Ta ≤ +80°C)**

SGS Customer Reference No. **0279**

Project File No. **24/0308**

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SGS United Kingdom Limited
(formerly SGS Baseefa Ltd.)

Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ

Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601

e-mail sgs.buxton@sgs.com web site www.sgs.co.uk/sgsbaseefa

Registered in England No. 1193985

Registered address: Rossmore Business Park, Ellesmere Port, Cheshire, CH65 3EN



P OATES
CERTIFICATION MANAGER
On behalf of SGS United Kingdom Limited

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Schedule

14

Certificate Number SGS24UKEX0097 Issue 0

15 Description of Product

The Sovereign Series Pressure Switches are designed to allow the switching of one or two internally mounted microswitches connected to intrinsically safe circuits, actuated by pressure being applied to a piston / lever / diaphragm assembly.

The apparatus comprises a pressure port containing the piston and diaphragm assembly connected externally to various process connections. The piston passes through a bushing arrangement into the main enclosure to actuate one or two microswitches. The above, together with screw terminals and a single EOL resistor or a combination of series/parallel resistors (as specified in the table of drawing 14959) are mounted in either a zinc alloy or stainless-steel enclosure.

The Sovereign Series Pressure Switches has a number of different models, the difference being the type and number of microswitches fitted and the process connection. The following models in the range have been assessed: -

Typical Model Number

5
S21
* * *
04

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1.
2.

3.

1. Enclosure Type – 2 options: -

- 4 = IP66 Stainless Steel Enclosure
- 5 = IP66 Cast Zinc Alloy Enclosure

2. Pressure Switch Type – 6 Options: -

- S21 = Fixed Switching Differential Pressure Switch (Max. Working Pressure 155 Bar)
- S22 = Adjustable Switching Differential Pressure Switch (Max. Working Pressure 155 Bar. SPDT Models only)
- S24 = Fixed Switching Differential Pressure Switch (Max. Working Pressure 1,000 Bar)
- S31 = Fixed Switching Differential Pressure Difference Switch (Max. Working Pressure 110 Bar)
- S34 = Fixed Switching Differential Pressure Difference Switch (Max. Working Pressure 250 Bar)
- S71 = Fixed Switching Differential Vapour Pressure Temperature Switch

3. Switch Options – 7 Options: -

- 04 = Single Pole Double Throw (SPDT) gold alloy contacts for low voltage switching
- 05 = Double Pole Double Throw (DPDT) gold alloy contacts for low voltage switching
- 0G = Single Pole Double Throw (SPDT) Environmentally Sealed with gold contacts
- 0H = Double Pole Double Throw (DPDT) Environmentally Sealed with gold contacts
- H2 = Single Pole Double Throw (SPDT) Hermetically Sealed, gold-plated sliver contacts
- H3 = Two Single Pole Double Throw (SPDT) Hermetically Sealed, gold-plated sliver contacts (Simultaneous falling under pressure)
- H6 = Two Single Pole Double Throw (SPDT) Hermetically Sealed, gold-plated sliver contacts (Simultaneous rising under pressure)

* Denotes other parameters of the model number relating to the construction and settings options of the apparatus. The differences in these options do not have an effect on the intrinsic safety assessment.

Each microswitch circuit has the following input parameters: -

- $U_i = 30V$
- $I_i = 300mA$
- $C_i = 0$
- $L_i = 0$



16 Report Number

See Item 20 – Certificate History

17 Specific Conditions of Use

None

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	Compliance
13	Protection against other hazards e.g. LVD Directive type requirements	Standards require manufacturer’s declaration.
14	Overloading of equipment (protection relays, etc.)	Covered by installation rules and manufacturer’s instructions.
21 (1)	External effects	The Purchaser should make the manufacturer aware of such issues.
21 (2)	Aggressive substances, etc.	The Purchaser should make the manufacturer aware of such issues.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
14781	1	E	12/08/2024	Industrial intrinsic safety nameplate

See Baseefa05ATEX0111 Issue 4 for a full list of applicable drawings.

20 Certificate History

Certificate No.	Date	Comments
SGS24UKEX0097	11 October 2024	Prime Certificate Report Number: 24(C)0308 Project Number: 24/0308 Original issue of the certificate
For drawings applicable to each issue, see original of that issue.		