

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: **Baseefa05ATEX0111– Issue 4**

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 re-issued certificate extends EU Type Examination Certificate No. Baseefa05ATEX0111 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.

8.1 The original certificate was issued by SGS Baseefa Ltd (UK Notified Body 1180). It, and any supplements previously issued by SGS Baseefa Ltd have been transferred to the supervision of SGS Fimko Oy (EU Notified Body 0598). The original certificate number is retained.

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 60079-11:2012

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 1G Ex ia IIC T6 Ga (-25°C ≤ T_a ≤ +60°C) or T5 Ga (-60°C ≤ T_a ≤ +80°C)**

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

Project File No. **24/0308**

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SGS Fimko Oy

Takomotie 8
FI-00380 Helsinki, Finland
Telephone +358 (0)9 696 361
e-mail sgs.fimko@sgs.com
web site www.sgs.fi

Business ID 0978538-5 Member of the SGS Group (SGA SA)



Mikko Välimäki
SGS Fimko Oy

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Schedule

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Certificate Number Baseefa05ATEX0111 – Issue 4

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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↑
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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 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
1.2.7	Protection against other hazards (LVD type requirements, etc.)	Standards require manufacturer's declaration.
1.2.8	Overloading of equipment (protection relays, etc.)	Covered by installation rules and manufacturer's instructions.
1.4.1	External effects	The Purchaser should make the manufacturer aware of such issues.
1.4.2	Aggressive substances, etc.	The Purchaser should make the manufacturer aware of such issues.

19 Drawings and Documents

New drawings submitted for this issue of certificate:

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

This drawing is also common to SGS24UKEX0097.

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
14959	1	A	18/06/2013	General arrangement EOL Resistors
14772	1	B	24/05/2006	'5' Sovereign Assembly EEx ia
14782	1	A	03/06/2005	'4' Sovereign Assembly EEx ia
14784	1	A	03/06/2005	Piston Actuator Pressures up to 1500 bar Type S24 (EEx ia Approval)
14785	1	A	03/06/2005	Variation to Piston Assembly Type S24 (EEx ia)
14786	1	A	03/06/2005	Variations to Pressure, Pressure Difference & Temperature Actuators

20 Certificate History

Certificate No.	Date	Comments
Baseefa05ATEX0111	9 June 2005	The release of the prime certificate. The associated test and assessment against the requirements of EN 60079-0:2004, EN 50020:2002, EN 60079-26:2004 and EN 50281-1-1:1999 is documented in Test Report No. 05(C)0307.
Baseefa05ATEX0111/1	24 May 2006	To permit the use of alternative enclosure and gasket materials on the enclosure type '5' models.
Baseefa05ATEX0111/2	26 June 2013	To permit the addition of a single EOL resistor or a combination of series/parallel resistors (as specified in the table of drawing 14959).

Certificate No.	Date	Comments
Baseefa05ATEX0111 Issue 3	16 August 2013	This issue of the certificate incorporates previously issued primary & supplementary certificates into one certificate and confirms that the current design removes the protection against dust and meets the requirements of EN 60079-0: 2012 and EN 60079-11: 2012. The marking of the equipment has been amended in accordance with the above.
Baseefa05ATEX0111 Issue 4	11 October 2024	This issue of the certificate confirms the current design meets the requirements of EN IEC 60079-0:2018 and introduces an address change. The test and assessment are recorded in 24(C)0308 for project 24/0308.
For drawings applicable to each issue, see original of that issue.		