

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: **SGS21ATEX0131X**

4 Product: **Limit switch box Type SB-EX--X-X-XXXX-X-X-X**

5 Manufacturer: **SANYATA ACTUATION AND FLUID ENGINEERING PRIVATE LIMITED**

6 Address: **No-262/1-A Mettukuppam Road, Via Alapakkam Road, Janaki Nagar, Maduravoyal, Chennai, 600095 India**

7 This product and any acceptable variation thereto is specified in the schedule 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. **GB/BAS/ExTR21.0160/00**

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


**EN IEC 60079-0: 2018 EN 60079-1: 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 :

 **Ex db IIC T6 Gb (-20 °C ≤ Ta ≤ +55 °C) or**

**Ex db IIC T5 Gb (-20 °C ≤ Ta ≤ +70 °C) or**

**Ex db IIC T4 Gb (-20 °C ≤ Ta ≤ +80 °C)**

SGS Fimko Oy Customer Reference No. **8128**

Project File No. **21/0254**

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## Schedule

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Certificate Number SGS21ATEX0131X

### 15 Description of Product

The Limit switch box, Model: SB-EX--X-X-XXXX-X-X-X consists of a housing, cover, and top & bottom operating rods. The housing & cover are constructed from aluminium alloy grade LM24; with alternative materials of construction being aluminium alloy grade LM25 and stainless steel grade 316/CF8M. The top & bottom operating rods are constructed from stainless steel grade 304 with an alternative material of construction being stainless steel grade 316.

An indicator dome made of polycarbonate is provided to indicate the position of the switch on top of the cover. The housing & cover forms a spigot joint; the housing and top operating rod forms a cylindrical joint, and the cover and bottom operating rod forms a cylindrical joint. The cover is secured on the housing via 4 M8 x 30 stainless steel socket head cap screws.

2 Nitrile O-rings are provided: one between the housing and cover, the other between the bottom operating rod and enclosure housing. The O-rings are provided for IP68 (For IPX8: 2 meter & 48 hours).

<b>SB-</b>	<b>EX</b>	<b>X</b>	<b>X</b>	<b>XXXX</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>Series Type</b> WP - Weather Proof EX - Explosion Proof							
<b>Material of Construction</b> A: Aluminium S: Stainless Steel							
<b>Feedback Option</b> A. Basic Switch Feedback B. 4-20mA PTR C. 4-20mA PTR + Switches D. 4-20mA PTR with HART E. Modbus F. Profibus G. Foundation Field Bus X: Other communication protocols							
<b>Switch Code</b> Select from switch options table							
<b>No. of Switches</b> 1 2 3 4							
<b>Cable Entries</b> 1: 2 Cable Entries 1/2" NPT 2: 2 Cable Entries M20 x 1.5 3: 2 Cable Entries 3/4" NPT 4: 2 Cable Entries M25 x 1.5							
<b>Temperature</b> S: Standard L: Low H: High							

### 16 Report Number

Certification Report GB/BAS/ExTR21.0160/00

**17 Specific Conditions of Use**

1. The manufacturer has maintained larger lengths, more stringent gaps, and a greater number of thread engagement for the flameproof joints than required by the standard. The user must refer to the manufacturer before carrying out any repair or refurbishment to the equipment.
2. The fastening screws for housing and cover with spigot joint shall be of stainless-steel socket head cap screw of size M8 x 30, property class A2-70 with minimum yield stress of 450 MPa.
3. Care should be taken during installation and cleaning to avoid risk of ignition due to electro-static discharge. Cleaning of non-metallic surface must be done with a damp cloth

**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, and conformity is demonstrated in the report:

Clause	Subject
1.2.7	LVD type requirements
1.2.8	Overloading of equipment (protection relays, etc.)
1.4.1	External effects
1.4.2	Aggressive substances, etc.

**19 Drawings and Documents**

Number	Sheet	Issue	Date	Description
SP0042	4 of 4	H	17-09-2021	LIMIT SWITCH BOX FOR IIC APPLICATION
SP0045	1 of 1	B	13-08-2021	BUSH LIMIT SWITCH BOX Ex

The drawings are common to IECEx BAS 21.0046X