

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: **Baseefa18ATEX0032X**

4 Product: **30mm Range of Sensors**

5 Manufacturer: **Synatel Instrumentation Limited**

6 Address: **Walsall Road, Norton Canes, Cannock, Staffordshire, WS11 9TB**

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

8 SGS Baseefa, Notified Body number 1180, 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/TR18.0074/00**

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

IEC 60079-0: 2017 EN 60079-18: 2015 + A1: 2017

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 2G Ex mb IIC T(see schedule) Gb

⊕ II 2D Ex mb IIC T(see schedule)°C Db

Tamb -15°C to +50°C

SGS Baseefa Customer Reference No. **1057**

Project File No. **14/0432**

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R S SINCLAIR

TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

M POWNEY
Certification
Manager

13

Schedule

14

Certificate Number Baseefa18ATEX0032X

15 Description of Product

The 30mm Range of Sensors consist of:

Type designation for Synatel:

The 30mm Range of Sensors consist of:

PUxxTxxHxAI Series of 30mm speedswitches

Alternative Type Designation for Braime:

M3008xxxAI Series of 30mm speedswitches

The 30mm Range of Sensors are self-contained sensors with a variety of different functions and circuit options contained within a 30mm diameter x 93mm long black plastic moulded enclosure. The enclosure is encapsulated using epoxy resin. The product type is identified in the series and code on the label. The outer surface of the tubular enclosure is threaded M30 x 1.5mm for a length of 70mm starting at the sensor end of the enclosure. Two plastic nuts are supplied to clamp the sensor in a suitable mounting bracket, or the sensor can be clamped direct to a surface by suitable clips.

The sensor is a 15-240V DC or 24-240V AC 2VA, 5 wire universal version which contains an output with a switching relay capacity of 250V AC/DC, 3A (non-inductive).

The maximum power supplied to the sensor circuit is controlled by a 50mA or 63mA fuse and two parallel zener diodes with a normal operating voltage of 12V.

The input supply is protected by a thermal fuse rated from 84°C to 104°C depending on the Temperature Class.

The 30mm Sensor has an Ingress Protection Rating IP66

The marking is as follows:

When fitted with 84°C (optional), 102°C & 104°C Thermal Fuses:

⊕ 2GD Ex mb IIC T4 Gb
Ex mb IIIC T110°C Db IP66

When fitted with 84°C Thermal Fuses:

⊕ 2GD Ex mb IIC T5 Gb
Ex mb IIIC T90°C Db IP66

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17 Specific Conditions of Use

1. The supply circuit shall be protected by a suitably rated fuse capable of interrupting a short circuit current of 1500 Amps.
2. Warning: Potential static ignition risk, clean only with a damp cloth.
3. The integral cable shall be terminated in a suitably certified enclosure or in the safe area.

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	Protection against other hazards
1.4.1	External effects
1.4.2	Aggressive substances, etc.

19 Drawings and Documents

Number	Issue	Date	Description
Drawings held on another certificate:			
* A3-301234B	B	22/03/18	Description 30mm enclosure ATEX/IECEX
* A3-301266A	0	16/01/13	30mm enclosure ATEX/IECEX
* A4-301308A	0	15/08/13	30mm end cap
New drawings:			
A3-200886A	0	20/03/18	30mm sensor protection details 2GD
A4-15889A	0	21/03/18	Synatel 30mm 2GD series approval label
A4-15890A	0	21/03/18	Braime 30mm 2GD series approval label

All drawings are common to and held on IECEx BAS 18.0025X and common to Baseefa18ATEX0032X.

* Drawings are also common to and held on EPL Ga Da / Cat 1GD 30mm sensor to IECExBAS12.0118X and common to Baseefa12ATEX0226X.