



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEX Scheme visit www.iecex.com

Certificate No.: IECEX BAS 18.0025X

Issue No: 0

Certificate history:

Issue No. 0 (2018-05-21)

Status: Current

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Date of Issue: 2018-05-21

Applicant: **Synatel Instrumentation Limited**
Walsall Road
Norton Canes
Cannock
Staffordshire
WS11 9TB
United Kingdom

Equipment: Type 30mm Range of sensors

Optional accessory:

Type of Protection: Encapsulation

Marking:

Ex mb IIC T(see schedule) Gb

Ex mb IIIC T(see schedule)°C Db

Tamb -15°C to +50°C

Approved for issue on behalf of the IECEX
Certification Body:

R S Sinclair


Position:

Technical Manager

Signature:
(for printed version)

M POWNEY
Certification
Manager

Date:


22/5/18

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEX Website](http://www.iecex.com).

Certificate issued by:

SGS Baseefa Limited
Rockhead Business Park
Staden Lane
Buxton, Derbyshire, SK17 9RZ
United Kingdom

SGS





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Manufacturer: **Synatel Instrumentation Limited**
Walsall Road
Norton Canes
Cannock
Staffordshire
WS11 9TB
United Kingdom

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-18 : 2014 Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"
Edition:4.0

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[GB/BAS/ExTR18.0074/00](#)

Quality Assessment Report:

[GB/BAS/QAR06.0065/07](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

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:

Ex mb IIC T4 Gb

Ex mb IIIC T110°C Db IP66

When fitted with 84°C Thermal Fuses :

Ex mb IIC T5 Gb

Ex mb IIIC T90°C Db IP66

SPECIFIC CONDITIONS OF USE: YES as shown below:

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.