



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEx BAS 10.0056X**

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Certificate history:

Status: **Current**

Issue No: 2

Issue 1 (2011-11-29)

Issue 0 (2011-02-17)

Date of Issue: 2020-03-02

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

Equipment: **MBA2A Mechanical Belt Switch, MBA2RA Mechanical Belt Alignment c/w Belt Rip and MBR2A Belt Rip Switch**

Optional accessory:

Type of Protection: **Dust ignition protection by enclosure "t" and non-electrical**

Marking: **Ex tb h IIIC T125°C Db  
IP66 Tamb -20°C to +50°C**


Approved for issue on behalf of the IECEx  
Certification Body:

**Mr R S Sinclair**

Position:

**Technical Manager**

Signature:  
(for printed version)

  
2/3/20

M POWNEY  
Certification  
Manager

Date:

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 [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

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





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

Additional  
manufacturing  
locations:

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 equipment 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 60079-31:2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition: 2

**ISO 80079-36:2016** Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres - Basic methods and requirements  
Edition: 1.0

This Certificate **does not** indicate compliance with 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 Reports:

[GB/BAS/ExTR10.0110/00](#)

[GB/BAS/ExTR11.0294/00](#)

[GB/BAS/ExTR19.0159/00](#)

Quality Assessment Report:

[GB/BAS/QAR06.0065/09](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

There are 3 Mechanical Belt Switch Units:

- ~ MBA2A Mechanical Belt Switch
- ~ MBA2RA Mechanical Belt Alignment c/w Belt Rip
- ~ MBR2A Belt Rip Switch

The Mechanical Belt Switch Units have an Ingress Protection Rating IP66.

See annex for full description

## SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The equipment shall be suitably earth bonded via the PCB mounted earth terminal inside the equipment enclosure.
2. Do not allow the nylon roller wall thickness to fall below 8mm. The wall thickness shall be checked after every operation of the switch.
3. Warning: The equipment is a potential static hazard, clean only with a damp cloth.
4. Do not allow dust layers to build up on the equipment.
5. The threaded entry holes shall be fitted with suitable cable glands or other suitable accessories such as breather/drains having an equipment certificate that maintain the IP66 Ingress Protection rating of the enclosure. These devices shall incorporate a suitable o-ring or sealing washer and locknut on the entry thread to maintain the IP66 rating.
6. Unused entry holes shall be fitted with suitable stopping plugs having an equipment certificate, or having a component certificate subject to the confirmation by the end user/installer of the ingress protection rating and the permitted service temperature of the component. The stopping plugs shall incorporate a suitable o-ring or sealing washer on the entry thread to maintain the IP66 rating.
7. The operating temperature range and ingress protection rating of the enclosure is limited to that of the devices/accessories fitted.



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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

### Variation 2.1

Minor drawing modifications and repositioning of the serial number label.

### Variation 2.2

Add alternative microswitch options.

### Variation 2.3

Add alternative 100W reed switch.

### Variation 2.4

Update enclosure/housing certificate number to latest certificate.

### Variation 2.5

Change the flat washer to an o-ring for the M25 Rod Guide and the M25 plug with connection.

### Variation 2.6

To confirm that the equipment covered by this certificate has been reviewed against the requirements of IEC 60079-0: 2017 and IEC 60079-31: 2013 in respect to the differences from IEC 60079-0: 2007 and IEC 60079-31: 2008, and to include an assessment to ISO 80079-36: 2016. None of the differences in the standards and the addition of the new standard affects this equipment, other than the marking and the requirement for IP washers on entries.

The equipment is now marked as follows:

Ex tb h IIIC T125°C Db

IP66 Tamb -20°C to +50°C

### Variation 2.7

To add three new Specific Conditions of Use Numbers 5, 6 and 7.

ExTR: **GB/BAS/ExTR19.0159/00**

File Reference: **14/0431**