



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEG Certification Scheme for Explosive Atmospheres

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

Certificate No.: IECEx BAS 10.0048X

Issue No: 3

Certificate history:

Status: **Current**

Issue No. 3 (2018-02-06)

Issue No. 2 (2014-08-06)

Date of Issue: **2018-02-06**

Page 1 of 4

Issue No. 1 (2010-10-28)

Issue No. 0 (2010-05-24)

Applicant: **Crowcon Detection Instruments Limited**  
172 Brook Drive  
Milton Park  
Abingdon  
Oxfordshire  
OX14 4SD  
**United Kingdom**

Equipment: **An Auxiliary Junction Box**

Optional accessory:

Type of Protection: **Flameproof and Dust tight**

Marking:

**Ex db IIC T6 Gb (-40°C ≤ Ta ≤ +50°C)**

**Ex db IIC T4 Gb (-40°C ≤ Ta ≤ +80°C)**

**Ex tb IIIC T85°C Db (-40°C ≤ Ta ≤ +50°C) IP6X**

**Ex tb IIIC T115°C Db (-40°C ≤ Ta ≤ +80°C) IP6X**

Approved for issue on behalf of the IECEx

R S Sinclair

Certification Body:

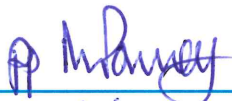
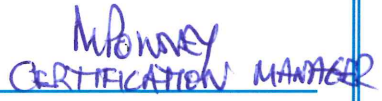
Position:

Technical Manager

Signature:

(for printed version)

Date:

  
6/2/18  
  
CERTIFICATION MANAGER

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**





# IECEX Certificate of Conformity

Certificate No: IECEX BAS 10.0048X Issue No: 3

Date of Issue: **2018-02-06** Page 2 of 4

Manufacturer: **Crowcon Detection Instruments Limited**  
172 Brook Drive  
Milton Park  
Abingdon  
Oxfordshire  
OX14 4SD  
**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 electrical 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:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2014-06</b> Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-31 : 2013</b> Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*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/ExTR10.0077/00](#)

[GB/BAS/ExTR10.0245/00](#)

[GB/BAS/ExTR16.0246/00](#)

Quality Assessment Report:

[GB/BAS/QAR06.0070/06](#)



# IECEX Certificate of Conformity

Certificate No: IECEx BAS 10.0048X

Issue No: 3

Date of Issue: **2018-02-06**

Page 3 of 4

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The auxiliary junction box comprises a stainless steel enclosure with a threaded cover and bosses for three cable entries. One of the bosses is provided with a thread adaptor.

The enclosure contains five printed circuit board mounted terminals.

The junction box is rated up to 32V 10W.

Cable entry holes are provided as specified on the certified drawings for the accommodation of flameproof cable entry devices, with or without the interposition of a flameproof thread adapter. Unused entries are to be fitted with certified flameproof stopping plugs.

The cable entry devices, thread adapters and stopping plugs shall be suitable for the equipment, the cable and the conditions of use and shall be certified as Equipment (not a Component).

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

1. The minimum number of threads engaged (eight) is more than the relevant minimum (five) as required by IEC 60079-1, in the event of any damage to the thread the user must contact the manufacturer.



# IECEx Certificate of Conformity

Certificate No: IECEx BAS 10.0048X

Issue No: 3

Date of Issue: 2018-02-06

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

### Variation 3.1

To confirm the equipment meets the updated requirements of IEC 60079-0, IEC 60079-1 and IEC 60079-31 and associated marking changes.

ExTR: <b>GB/BAS/ExTR16.0246/00</b>	File Reference: <b>16/0619</b>
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# 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](http://www.iecex.com)

Certificate No.: IECEx BAS 10.0048 issue No.:2

Status: **Current**

Date of Issue: **2014-08-06** Page 1 of 4

Certificate history:  
Issue No. 2 (2014-8-6)  
Issue No. 1 (2010-10-28)  
Issue No. 0 (2010-5-24)

Applicant: **Crowcon Detection Instruments Limited**  
172 Brook Drive  
Milton Park  
Abingdon  
Oxfordshire  
OX14 4SD  
United Kingdom

Electrical Apparatus: **An Auxiliary Junction Box**  
Optional accessory:

Type of Protection: **Flameproof and Dust tight**

Marking: **Ex d IIC T6 Ta -40°C to + 50°C Gb**  
**Ex tb IIIC T85°C Ta -40°C to + 50°C Db IP6X**  
**Ex d IIC T4 Ta -40°C to + 80°C Gb**  
**Ex tb IIIC T115°C Ta -40°C to + 80°C Db IP6X**

Approved for issue on behalf of the IECEx Certification Body: R S Sinclair *pp M.Ponney*

Position: General Manager

Signature:  
(for printed version)

*M.Ponney*  
\_\_\_\_\_  
6/8/14  
\_\_\_\_\_

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 the Official IECEx Website.

Certificate issued by:

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





# IECEX Certificate of Conformity

Certificate No.: IECEX BAS 10.0048

Date of Issue: 2014-08-06

Issue No.: 2

Page 2 of 4

Manufacturer: **Crowcon Detection Instruments Limited**  
172 Brook Drive  
Milton Park  
Abingdon  
Oxfordshire  
OX14 4SD  
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 electrical 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 : 2007-10** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition: 5  
**IEC 60079-1 : 2007-04** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition: 6  
**IEC 60079-31 : 2008** Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'  
Edition: 1

*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/ExTR10.0077/00

GB/BAS/ExTR10.0245/00

Quality Assessment Report:

GB/BAS/QAR06.0070/03



# IECEX Certificate of Conformity

Certificate No.: IECEx BAS 10.0048

Date of Issue: 2014-08-06

Issue No.: 2

Page 3 of 4

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The auxiliary junction box comprises a stainless steel enclosure with a threaded cover and bosses for three cable entries. One of the bosses is provided with a thread adaptor.

The enclosure contains five printed circuit board mounted terminals.

The junction box is rated up to 32V 10W.

Cable entry holes are provided as specified on the certified drawings for the accommodation of flameproof cable entry devices, with or without the interposition of a flameproof thread adapter. Unused entries are to be fitted with certified flameproof stopping plugs.

The cable entry devices, thread adapters and stopping plugs shall be suitable for the equipment, the cable and the conditions of use and shall be certified as Equipment (not a Component).

### CONDITIONS OF CERTIFICATION: NO



# IECEx Certificate of Conformity

Certificate No.: IECEx BAS 10.0048

Date of Issue: 2014-08-06

Issue No.: 2

Page 4 of 4

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

### Variation 2.1

This issue permits existing information (for example on Schedule Drawings) to be replaced by the revised certificate holders address. No other changes may be made to the certified design

File Reference: 14/0639





# 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](http://www.iecex.com)

Certificate No.: IECEx BAS 10.0048 issue No.:1

Status: **Current**

Certificate history:  
Issue No. 1 (2010-10-28)  
Issue No. 0 (2010-5-24)

Date of Issue: **2010-10-28** Page 1 of 4

Applicant: **Crowcon Detection Instruments Limited**  
2 Blacklands Way  
Abingdon Business Park  
Abingdon  
Oxfordshire  
OX14 1DY  
United Kingdom

Electrical Apparatus: **An Auxiliary Junction Box**  
*Optional accessory:*

Type of Protection: **Flameproof and Dust tight**

Marking: **Ex d IIC T6 Ta -40°C to + 50°C Gb**  
**Ex tb IIIC T85°C Ta -40°C to + 50°C Db IP6X**  
**Ex d IIC T4 Ta -40°C to + 80°C Gb**  
**Ex tb IIIC T115°C Ta -40°C to + 80°C Db IP6X**

Approved for issue on behalf of the IECEx  
Certification Body:

*RS* R S Sinclair *M. BOWNEY*

Position: Managing Director

Signature:  
(for printed version)

*M. Bowney*  
\_\_\_\_\_  
28/10/10

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 the Official IECEx Website.

Certificate issued by:

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





# IECEX Certificate of Conformity

Certificate No.: IECEX BAS 10.0048

Date of Issue: 2010-10-28

Issue No.: 1

Page 2 of 4

Manufacturer: **Crowcon Detection Instruments Limited**  
2 Blacklands Way  
Abingdon Business Park  
Abingdon  
Oxfordshire  
OX14 1DY  
**United Kingdom**

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 electrical 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 : 2007-10** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition: 5  
**IEC 60079-1 : 2007-04** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition: 6  
**IEC 60079-31 : 2008** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure 't'  
Edition: 1

*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/ExTR10.0077/00  
GB/BAS/ExTR10.0245/00

Quality Assessment Report:

GB/BAS/QAR06.0070/02



# IECEX Certificate of Conformity

Certificate No.: IECEx BAS 10.0048

Date of Issue: 2010-10-28

Issue No.: 1

Page 3 of 4

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The auxiliary junction box comprises a stainless steel enclosure with a threaded cover and bosses for three cable entries. One of the bosses is provided with a thread adaptor.

The enclosure contains five printed circuit board mounted terminals.

The junction box is rated up to 32V 10W.

Cable entry holes are provided as specified on the certified drawings for the accommodation of flameproof cable entry devices, with or without the interposition of a flameproof thread adaptor. Unused entries are to be fitted with certified flameproof stopping plugs.

The cable entry devices, thread adapters and stopping plugs shall be suitable for the equipment, the cable and the conditions of use and shall be certified as Equipment (not a Component).

### CONDITIONS OF CERTIFICATION: NO

Empty box for conditions of certification.



# IECEx Certificate of Conformity

Certificate No.: IECEx BAS 10.0048

Date of Issue: 2010-10-28

Issue No.: 1

Page 4 of 4

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

### Variation 1.1

To permit the reformatting, and therefore up-issue, of the certification drawings. The physical design of the Auxiliary Junction Box is not altered in any way.

ExTR: GB/BAS/ExTR10.0245/00

File Reference: 10/0790



# 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](http://www.iecex.com)

Certificate No.: IECEx BAS 10.0048 issue No.: 0 Certificate history:

Status: **Current**

Date of Issue: **2010-05-24** Page 1 of 3

Applicant: **Crowcon Detection Instruments Limited**  
2 Blacklands Way  
Abingdon Business Park  
Abingdon  
Oxfordshire  
OX14 1DY  
United Kingdom

Electrical Apparatus: **An Auxiliary Junction Box**  
*Optional accessory:*


Type of Protection: **Flameproof and Dusttight**

Marking: **Ex d IIC T6 Ta -40°C to + 50°C Gb**  
**Ex tb IIIC T85°C Ta -40°C to + 50°C Db IP6X**  
**Ex d IIC T4 Ta -40°C to + 80°C Gb**  
**Ex tb IIIC T115°C Ta -40°C to + 80°C Db IP6X**

Approved for issue on behalf of the IECEx Certification Body: R S Sinclair

Position: Managing Director

Signature:  
(for printed version)

  
\_\_\_\_\_  
24-5-10

Date:

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3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

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





# IECEX Certificate of Conformity

Certificate No.: IECEx BAS 10.0048

Date of Issue:

2010-05-24

Issue No.: 0

Page 2 of 3

Manufacturer:

**Crowcon Detection Instruments Limited**  
2 Blacklands Way  
Abingdon Business Park  
Abingdon  
Oxfordshire  
OX14 1DY  
United Kingdom

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 electrical 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:

<b>IEC 60079-0 : 2007-10</b> Edition: 5	Explosive atmospheres - Part 0: Equipment - General requirements
<b>IEC 60079-1 : 2007-04</b> Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-31 : 2008</b> Edition: 1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 'I'

*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/ExTR10.0077/00](#)

Quality Assessment Report:

[GB/BAS/QAR06.0070/02](#)



# IECEx Certificate of Conformity

Certificate No.: IECEx BAS 10.0048

Date of Issue: 2010-05-24

Issue No.: 0

Page 3 of 3

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The auxiliary junction box comprises a stainless steel enclosure with a threaded cover and bosses for three cable entries. One of the bosses is provided with a thread adaptor.

The enclosure contains five printed circuit board mounted terminals.

The junction box is rated up to 32V 10W.

Cable entry holes are provided as specified on the certified drawings for the accommodation of flameproof cable entry devices, with or without the interposition of a flameproof thread adapter. Unused entries are to be fitted with certified flameproof stopping plugs.

The cable entry devices, thread adapters and stopping plugs shall be suitable for the equipment, the cable and the conditions of use and shall be certified as Equipment (not a Component).

**CONDITIONS OF CERTIFICATION: NO**