



# 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 SIR 06.0087X** issue No.: **5**

Status: **Current**

Date of Issue: **2014-07-30** Page 1 of 4

Applicant: **ABTECH Limited**  
A B Controls & Technology  
Sanderson Street  
Lower Don Valley  
Sheffield S9 2UA  
**United Kingdom**

Electrical Apparatus: **BPG Range of Junction Boxes**  
*Optional accessory:*

Type of Protection: **Increased Safety and Dust**

Marking: Ex e IIC T6 Gb (Ta -65°C to +#°C) or Ex ia IIC T6 Ga (Ta -65°C to +#°C)  
Ex e IIC T5 Gb (Ta -65°C to +#°C) Ex ia IIC T5 Ga (Ta -65°C to +#°C)  
Ex e IIC T4 Gb (Ta -65°C to +#°C) Ex ia IIC T4 Ga (Ta -65°C to +#°C)  
Ex ib IIC T6 Gb (Ta -65°C to +#°C) Ex ta IIIC T85°C Da (Ta -65°C to +#°C)  
Ex ib IIC T5 Gb (Ta -65°C to +#°C) Ex ta IIIC T100°C Da (Ta -65°C to +#°C)  
Ex ib IIC T4 Gb (Ta -65°C to +#°C)  
Ex tb IIIC T85°C Db (Ta -65°C to +#°C)  
Ex tb IIIC T100°C Db (Ta -65°C to +#°C)  
(Temperature class, marking for dust and Ta maximum depends upon the maximum power dissipation, refer to Annex e)

Approved for issue on behalf of the IECEx Certification Body: **C Ellaby**

Position: **Deputy Certification Manager**

Signature:  
(for printed version)

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

Certificate issued by:

**SIRA Certification Service**  
Rake Lane  
Ecclestone  
Chester  
CH4 9JN  
United Kingdom

**sira**  
CERTIFICATION





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Manufacturer: **ABTECH Limited**  
A B Controls & Technology  
Sanderson Street  
Lower Don Valley  
Sheffield S9 2UA  
**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 60079-11 : 2011</b> Edition: 6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 60079-31 : 2008</b> Edition: 1	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure 't'
<b>IEC 60079-7 : 2006-07</b> Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*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/SIR/ExTR06.0101/01

GB/SIR/ExTR12.0245/00

GB/SIR/ExTR14.0107/00

##### Quality Assessment Report:

GB/SIR/QAR06.0046/00  
GB/SIR/QAR06.0046/03

GB/SIR/QAR06.0046/01  
GB/SIR/QAR06.0046/04

GB/SIR/QAR06.0046/02



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## Schedule

### EQUIPMENT:

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

The BPG Junction Boxes comprise a polyester, BPG Enclosure, component certified as IECEx SIR 06.0086U, that is fitted with terminals. Refer to certificate Annexe for a full product description.

### CONDITIONS OF CERTIFICATION: YES as shown below:

1. When used in an EPL ta (Da) application the power supply to the equipment is to be rated for a prospective short circuit current of not more than 10 kA.



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

<b>Issue 1</b> – this Issue introduced the following changes:	
1	To allow GB/SIR/ExTR06.0101/01 to replace GB/SIR/ExTR06.0101/00
<b>Issue 2</b> – this Issue introduced the following changes:	
1	The Description was aligned with certificate no. Sira 99ATEX3173 associated with this Junction Box, this included recognising the following changes assessed as part of that certificate. <ul style="list-style-type: none"><li>* The BPG 13.5 enclosure was added to the range.</li><li>* The option to fit slotted trunking inside the enclosures, this trunking may be sited as required.</li></ul> The instructions were modified to recognise additional restrictions associated with this change and a new Condition of Manufacture was introduced.
2	Following appropriate re-assessment to demonstrate compliance with the requirements of the latest standards, the documents previously used for assessment were replaced by those currently listed, the markings were updated accordingly. In addition, the enclosure was allowed to be used for intrinsically safe applications and IEC 60079-11:2012 Edition 6 was included in the list of supporting standards.
3	The Condition of Certification related to static was removed; in addition the Conditions of Manufacture were rationalised to bring them into line with Sira 99ATEX3173.
4	It was recognised that a new procedure for selecting terminals has been adopted by the manufacturer; this allows the terminals to be chosen from an Approved Component Document, Sira 12AC087, that is issued and controlled by Sira.
<b>Issue 3</b> – this Issue introduced the following change:	
1	Issued to correct the numbering of the changes in Issue 2 and to edit change 3. GB/SIR/ExTR14.0113/00 was removed.
<b>Issue 4</b> – this Issue introduced the following change:	
1	Using IEC 60079-26, the junction boxes were allowed to be marked with 'Ex ia' and 'Ex ia' concepts for EPL levels Ga and Da, as a result of this change, the maximum power dissipation table was modified and a Special Condition for Safe Use was introduced necessitating the addition of an 'X' suffix to the certificate number.
2	The BPG range of junction boxes were allowed to be used in an upper ambient +55°C with a temperature class/surface temperature of T5/T100°C, the associated maximum power dissipation ratings (W) and markings were recognised.
<b>Issue 5</b> – this Issue introduced the following change:	
1	Issued to correct a typographical error