



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 16.0020X issue No.:2

Status: **Current**

Certificate history:
Issue No. 2 (2016-7-18)
Issue No. 1 (2016-5-31)
Issue No. 0 (2016-4-15)

Date of Issue: **2016-07-18** Page 1 of 4

Applicant: **Bifold Fluidpower Limited**
Broadgate,
Oldham Broadway Business Park,
Chadderton,
Oldham,
Greater Manchester,
OL9 9XA
United Kingdom

Equipment: **EHPC210 Universal Controller**
Optional accessory:


Type of Protection: **Flameproof, Intrinsic Safety**

Marking: **Ex db IIB T6 Gb IP66 (Tamb = -40°C to +60°C)**
or
Ex db [ib Gb] IIB T6 Gb IP66 (Tamb = -40°C to +60°C)

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

Position: Technical Manager

Signature:
(for printed version)


18/7/16

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:

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





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Manufacturer: **Bifold Fluidpower Limited**
Broadgate,
Oldham Broadway Business Park,
Chadderton,
Oldham,
Greater Manchester,
OL9 9XA
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 : 2011 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition: 7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-11 : 2011 Edition: 6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "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/ExTR16.0046/00](#)

[GB/BAS/ExTR16.0143/00](#)

[GB/BAS/ExTR16.0175/00](#)

Quality Assessment Report:

[GB/BAS/QAR07.0038/05](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The EHPC210 Universal Controller is rated at a maximum input voltage of 28Vdc, a maximum internal current of 80 mA and a maximum power dissipation of 2W. The EHPC210 Universal Controller is designed for control and monitoring of linear and rotary controls.

The EHPC210 Universal Controller comprises of an Ex component cylindrical metallic enclosure to IECEx FTZU 10.0010U or IECEx FTZU 12.0017U fitted with electronic circuitry.

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. The cable entry holes may also be fitted with Bifold linear or rotary EHPC Operators to IECEx BAS 15.0079U.

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).

When used in an explosive dust atmosphere the cable entry devices shall maintain the ingress protection of the enclosure.

The EHPC210 Universal Controller may be fitted with an optional intrinsically safe EHPC210 Isolator Board to IECEx BAS 16.0023U.

Hazardous area connections:

Each loop:

$U_i = 30V$ $I_i = 100mA$ $P_i = 0.7W$ $C_i = 0$ $L_i = 0$

CONDITIONS OF CERTIFICATION: YES as shown below:

1. When fitted, the flameproof joints of the EHPC Operators are not to be repaired.



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

Variation 2.1

To amend the hazardous area connection parameters of the intrinsically safe EHPC210 Isolator Board, when fitted.

The new parameters are: $U_i = 30V$ $I_i = 100mA$ $P_i = 0.7W$ $C_i = 0$ $L_i = 0$

ExTR: GB/BAS/ExTR16.0175/00

File Reference: 16/0500