



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 16.0023U issue No.:1

Certificate history:
Issue No. 1 (2016-7-18)
Issue No. 0 (2016-4-14)

Status: **Current**

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 Isolator Board**
Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking: **[Ex ib Gb] IIB**
(-40°C ≤ Ta ≤ +80°C)

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

Position: Technical Manager

Signature:
(for printed version)


18 July 2016

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,
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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 Explosive atmospheres - Part 0: General requirements
Edition: 6.0

IEC 60079-11 : 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition: 6.0

*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/ExTR16.0112/00](#)

[GB/BAS/ExTR16.0182/00](#)

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 EHCP210 Isolator Board provides intrinsically safe 4-20mA / HART loop connections for valve control and pump monitoring equipment. It is intended to form part of the EHCP210 Controller and features two identical passive current loop circuits which can act as controllers or receivers and may also communicate using HART.

The Isolator Board consists of a number of components, including optoisolators, mounted a single PCB to which connections are made via connectors on an interconnecting board.

INPUT/OUTPUT PARAMETERS Non-hazardous area connections

$U_m = 253V$

Hazardous area connections

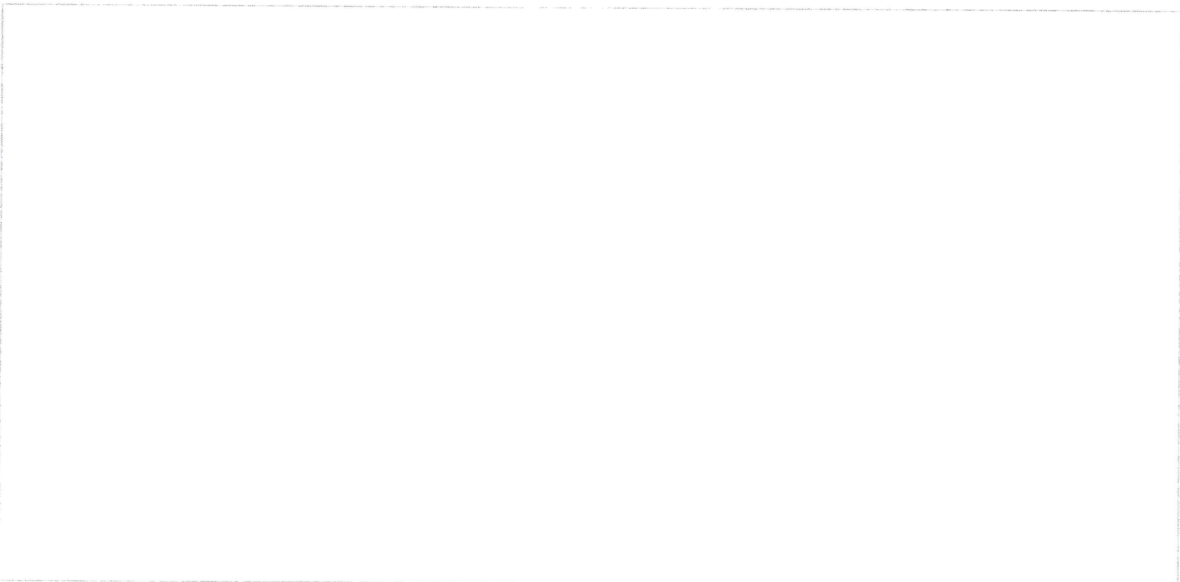
Each loop

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

SCHEDULE OF LIMITATIONS

1. The EHPC210 Isolator Board must be installed in either
 - a) a non-hazardous area and be provided with a degree of ingress protection not less than IP20
 - or
 - b) an appropriately certified Ex d enclosure, the certificate for which must make specific provision for such inclusion.
2. Non-hazardous area connecting wiring must provide sufficient segregation, i.e. $\geq 1mm$ insulation, such that the intrinsic safety assessment cannot be invalidated.

CONDITIONS OF CERTIFICATION: NO





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

Variation 1.1

To permit a change to the hazardous area loop connection input parameters (from 28V, 20mA, 0.65W to 30V, 100mA, 0.7W), a new PCB design and minor drawing changes.

ExTR: GB/BAS/ExTR16.0182/00

File Reference: 16/0520