



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.: issue No.: Certificate history:

Status:

Date of Issue: Page 1 of 3

Applicant: **BC-Systemtechnik GmbH & Co KG**
Emil-Figge-Strasse 76
44227 Dortmund
Germany

Electrical Apparatus: **Pressure switch type BC-DS*B-*** and BC-DS*C-*****
Optional accessory:

Type of Protection: **Equipment protection by intrinsic safety "i"**

Marking: **Ex ia I Mb for type BC-DS*B-*****
Ex ia IIC T6 Gb for type BC-DS*C-***

Approved for issue on behalf of the IECEx Certification Body: **H.- Ch. Simanski**

Position: **Head of Certification Body**

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.

Certificate issued by:

DEKRA EXAM GmbH
Dinnendahlstrasse 9
44809 Bochum
Germany

DEKRA
DEKRA EXAM GmbH



IECEX Certificate of Conformity

Certificate No.: IECEx BVS 11.0056

Date of Issue: 2011-07-12

Issue No.: 0

Page 2 of 3

Manufacturer: **BC-Systemtechnik GmbH & Co KG**
Emil-Figge-Strasse 76
44227 Dortmund
Germany

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 60079-11 : 2006 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition: 5

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:

DE/BVS/ExTR11.0082/00

Quality Assessment Report:

DE/BVS/QAR11.0002/00



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Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Pressure switch type BC-DS*B-*** and type BC-DS*C-***
a bbb a bbb

a = Application range: P = Pneumatics, H = Hydraulics

b = Pressure range

The pressure switch consists of a metal enclosure into which the mechanics and the switch contact (two-way contact) are mounted and securely fixed. The pressure switch connected via a plug-in connector.

The pressure switch contains only parts which do not impair the type of protection intrinsic safety.

Ratings

Maximum switching voltage	Ui	30 V
Maximum switching current	Ii	2.5 A
Maximum internal capacity	Ci	negligible
Maximum internal inductance	Li	negligible

Only for connection of one intrinsically safe circuit.

Ambient temperature range: $-30\text{ °C} \leq T_a \leq +60\text{ °C}$

CONDITIONS OF CERTIFICATION: NO