



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX SIR 16.0018X** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 2 [Issue 1 \(2022-03-08\)](#)
[Issue 0 \(2016-06-08\)](#)
Date of Issue: 2024-11-06
Applicant: **Ashcroft Instruments GmbH**
Max-Planck-Straße 1-9
Alsdorf D-52477
Germany
Equipment: **Ashcroft® B7, T7 and D7 Series Pressure & Temperature Switches**
Optional accessory:
Type of Protection: **Intrinsically Safe 'ia'**
Marking: Ex ia IIC T4 Ga
Ex ia IIIC T135°C Da
Ta = -20°C to +60°C
IP 6X

Approved for issue on behalf of the IECEx
Certification Body:

Michelle Halliwell

Position:

Senior Director of Operations

Signature:
(for printed version)

Date:
(for printed version)

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 www.iecex.com or use of this QR Code.



Certificate issued by:

CSA Group Testing UK Ltd
Unit 6, Hawarden Industrial Park
Hawarden, Deeside CH5 3US
United Kingdom





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Manufacturer: **Ashcroft Instruments GmbH**
Max-Planck-Straße 1-9
Alsdorf D-52477
Germany

Manufacturing locations: **Ashcroft Instruments GmbH**
Max-Planck-Straße 1-9
Alsdorf D-52477
Germany

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 equipment 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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with 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 Reports:

[GB/CSAE/ExTR22.0044/00](#)

[GB/SIR/ExTR16.0150/00](#)

[GB/SIR/ExTR24.0120/00](#)

Quality Assessment Report:

[GB/CSAE/QAR24.0001/00](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Type Snap Action Switches (B7 Pressure Switch, D7 Differential Pressure Switch and the T7 Temperature Switch) consists of either a single or dual micro-switch, or associated terminal blocks located within a metallic enclosure. The enclosure is a cylindrical two-part enclosure, consisting of a base and cover, manufactured from die-cast aluminium, aluminium alloy or stainless steel. The cover threads into the base which has three bosses at 90° apart on its side walls. The two opposing bosses each contain a 3/4" NPT cable entry port while the other boss provides a facility, allowing connection to a mechanically activated push rod, which receives a response from the pressure or temperature sensing element. The push rod in turn activates the micro-switches. Electrical access to the terminal blocks is via cable entry ports located on either side of the enclosure via the 3/4" NPT bosses.

The switches are to be powered via a suitably certified shunt zener diode safety barrier or alternatively a galvanic isolator.

Example of model number:

Type	Switch element	Material actuator seal	Range	Engineering unit	Protection	Process connection	Electrical connection	Option
B7	24	B	100	PSI	CEN6	25	JL	NH

CEN6 is Ex ia with standard case without any option

CEN7 is Ex ia with Ex d cable gland

The equipment has the following safety description:

U_i = 30V I_i = 100mA P_i = 650mW C_i = 0 L_i = 0

Conditions of Manufacture

1. The equipment shall be subjected to a routine test voltage of 500V rms; there shall be no breakdown of insulation as required by clause 10.3 of IEC 60079-11:2011.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Epoxy coated enclosures are non-conducting and may generate an ignition-capable level of electrostatic charges under certain extreme conditions. The user should ensure that the equipment is not installed in a location where it may be subjected to external conditions (such as high-pressure steam) which might cause a build-up of electrostatic charges on non-conducting surfaces. Additionally, cleaning of the equipment should be done only with a damp cloth.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1 – this Issue introduced the following changes:

1. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, IEC 60079-0:2011 Ed. 6 was replaced by IEC 60079-0:2017 Ed. 7.
2. Revise nameplate drawing A 250 I 043-02 to add UKCA certificate information.

Issue 2 - this Issue introduced the following changes:

1. To change the company address from Max-Planck-Straße 1, D-52499 Baesweiler, Germany to Max-Planck-Straße 1-9, D-52477 Alsdorf, Germany