



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

Certificate No.: **IECEX SIR 14.0077X** Page 1 of 4 Certificate history:  
Status: **Current** Issue No: 2 [Issue 1 \(2018-11-06\)](#)  
[Issue 0 \(2015-04-24\)](#)  
Date of Issue: 2025-03-06  
Applicant: **Ashcroft Inc.**  
250 East Main Street  
Stratford  
Connecticut 06614  
**United States of America**  
Equipment: **Ashcroft® B7, T7 and D7 Series Pressure & Temperature Switches**  
Optional accessory:  
Type of Protection: **Flameproof and Dust Protection by Enclosure**  
Marking: Ex db IIC T6 Gb  
Ex tb IIIC T85°C Db  
Ta -20°C to +60°C

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)

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Certificate issued by:

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





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Page 2 of 4

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

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

**Ashcroft Inc.**  
250 East Main Street  
Stratford  
Connecticut 06614  
**United States of America**

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 60079-0:2011](#) Explosive atmospheres - Part 0: General requirements  
Edition:6.0

[IEC 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

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/SIR/ExTR15.0109/00](#)  
[GB/SIR/ExTR25.0013/00](#)

[GB/SIR/ExTR15.0118/00](#)

[GB/SIR/ExTR18.0202/00](#)

Quality Assessment Reports:

[GB/CSAE/QAR24.0001/01](#)

[GB/SIR/QAR11.0010/13](#)



# IECEX Certificate of Conformity

Certificate No.: **IECEX SIR 14.0077X**

Page 3 of 4

Date of issue: 2025-03-06

Issue No: 2

## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

Ashcroft® B7, T7 and D7 Series Pressure & Temperature switches comprise 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 and is secured against loosening by a 10-32 UNF-2B socket head cap screw. The base houses a range of various switch elements and an operating rod. The base 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 different detecting elements (actuators) retained by a mounting plate secured by six 10-32 UNC screws. Either the detecting element, when filled or the main body (dependent upon type) provide a means of venting that ensure the interior of the enclosure is not subject to a pressure greater than 2 lb/ft<sup>2</sup>.

**Refer to annexe for more information**

**SPECIFIC CONDITIONS OF USE: YES as shown below:**

Refer to the Annexe



# IECEX Certificate of Conformity

Certificate No.: **IECEX SIR 14.0077X**

Page 4 of 4

Date of issue: 2025-03-06

Issue No: 2

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

**Issue 1** – this Issue introduced the following change:

1. The recognition of minor typographical correction to the name plate drawing, this amendment is administrative and does not affect the aspects of the product marking that are relevant to explosion safety.

**Issue 2** – this Issue introduced the following change:

1. To change the manufacturers address from Max-Planck-Straße 1, Postfach 1120, D-52499, Baesweiler, Germany to Max-Planck-Straße 1-9, 52477 Alsdorf, Germany.

## **Annex:**

[IECEX SIR 14.0077X Iss 2 Annexe\\_1.pdf](#)

Annexe to: I ECEX SI R 14.0077X Issue 2

Applicant: Ashcroft Inc



Apparatus: Ashcroft® B7, T7 and D7 Series Pressure & Temperature Switches

**EQUIPMENT (continued)**

**Switch element ratings up to:**

15 A      125/250/480 V ac                      500 mA    125 V dc  
6 A        34 V dc    250 mA    250 V dc

**PRODUCT NOMENCLATURE**

- Ashcroft® T7 Series Temperature Switches product nomenclature: 1 2 3 4 5 6 7 8 9  
Typical example: T767TS060

Where	Description	Code designation(s)
1	Product type designation	T
2	Standard designation	7
3	2 digit code depicting the internally fitted switches	20 thru 27,31,32,42,50,61 thru 71
4	Standard designation	T
5	Switch mount type	S= DIRECT MOUNT Omitted = REMOTE MOUNT
6	2 digit code depicting the length of line in feet on the remote mount switch	e.g. 05 = 5 feet Omitted = DIRECT MOUNT
7	3 digit code depicting the bulb length in inches on the remote mount switch, or STEM length for a direct mount system.	e.g. 060 = 6 inches
8	Additional (up to 8 digit code) suffix coding may be present indicating additional overall product assembly features that are not covered by this certification and do not affect the explosion protection concepts covered by this certification.	e.g. ***** XC4YFSNH
9	Temperature range of switch	e.g. 260/400C Noting ; Though part of the product code is listed on the nameplate in its own field 'RANGE'

- Ashcroft® B7 and D7 Series Pressure & Temperature Switches product nomenclature: 1 2 3 4 5 6 7  
Typical example: B724B

Where	Description	Code designation(s)
1	Product type designation	B or D
2	Standard designation	7
3	2 digit code depicting the internally fitted switches	20 thru 27,31,32,42,50,61 thru 71
4	Associated actuator material	S,P,B,V or T
5	Additional (up to 8 digit code) suffix coding may be present indicating additional overall product assembly features that are not covered by this certification and do not affect the explosion protection concepts covered by this certification.	e.g. ***** XC4YFSNH
6	Pressure range of switch	e.g. 60PSI Noting ; Though part of the product code is listed on the nameplate in its own field 'RANGE'

**Annexe to: IECEx SIR 14.0077X Issue 2**

**Applicant: Ashcroft Inc**



**Apparatus: Ashcroft® B7, T7 and D7 Series Pressure & Temperature Switches**

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### Specific Conditions of Use

1. In accordance with clause 5.1 of IEC 60079-1, the critical dimensions of the flamepaths are:

Flamepath	Maximum Gap (mm)	Minimum L (mm)
The cylindrical joint between the push rod & spring guide	0.09	25

2. Prior to use, the equipment shall be subjected to a pressure test, which shall be based on the process pressure of the associated system. If available, the test shall be conducted in accordance with the requirements of an applicable industry standard. The pressure shall be applied from the system side of the diaphragm. It must be proven that there is no leakage of the test medium into the flameproof enclosure and that the flameproof enclosure does not become pressurised above ambient atmospheric pressure.
3. 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."