



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

Certificate No.: IECEx CML 18.0089X

Issue No: 0

Certificate history:

[Issue No. 0 \(2019-02-19\)](#)

Status: **Current**

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Date of Issue: **2019-02-19**

Applicant: **Barksdale, Inc.**  
3211 Fruitland Avenue  
Los Angeles, CA 90058  
**United States of America**

Equipment: **UDS7-BX Solid State Pressure Switch**

*Optional accessory:*

Type of Protection: **Flameproof "db", Dust Ignition "tb"**

Marking:

Ex db IIC T6 Gb

Ex tb IIIC T80°C IP66 Db

Ta: -40°C to +60°C

Approved for issue on behalf of the IECEx  
Certification Body:

R C Marshall

Position:

Certification Officer

Signature:  
(for printed version)

Date:

2019-02-19

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:

**Certification Management Limited**  
Unit 1, Newport Business Park  
New Port Road  
Ellesmere Port, CH65 4LZ  
United Kingdom





# IECEX Certificate of Conformity

Certificate No: IECEX CML 18.0089X Issue No: 0  
Date of Issue: 2019-02-19 Page 2 of 3  
Manufacturer: **Barksdale, Inc**  
3211 Fruitland Avenue  
Los Angeles, CA 90058  
**United States of America**

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 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 : 2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0  
**IEC 60079-1 : 2014-06** 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 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/CML/ExTR18.0121/00](#)

Quality Assessment Report:

[FR/LCI/QAR08.0004/08](#)



# IECEX Certificate of Conformity

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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The UDS7-BX Pressure Switch consists of a dual-channel, solid-state display module mounted inside a flameproof enclosure fitted with a screw-type terminal for field wiring connections. The enclosure is manufactured from cast aluminium which is then painted with a lacquer to protect against corrosion.

Refer to Annex for full description and Conditions of Manufacture.

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

Refer to Annex for Specific Conditions of Use.

### Annex:

[IECEX CML 18.0089X Iss. 0 Certificate Annex.pdf](#)

**Annexe to:** IECEx CML 18.0089X Issue 0  
**Applicant:** Barksdale Inc.  
**Apparatus:** UDS7-BX Solid State Pressure Switch



## Product Description

The UDS7-BX Pressure Switch consists of a dual-channel, solid-state display module mounted inside a flameproof enclosure fitted with a screw-type terminal for field wiring connections. The enclosure is manufactured from cast aluminium which is then painted with a lacquer to protect against corrosion.

There are two 3/4" NPT threaded ports, one fitted with a dual-sealed pressure sensor to be fitted directly to the process and the other intended for field wiring.

The pressure measurements can range up to 13,000 psig, based upon the configuration option.

## Conditions of Manufacture

The following condition of manufacture applies:

- i. Each potted joint shall be subjected to a routine overpressure test in accordance with EN/IEC 60079-1 clause 16 at 15.74 bar.

## Conditions of Certification/Special Conditions for Safe Use

The following conditions of certification apply:

- i. The flamepaths are not intended to be repaired.
- ii. Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore, the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. In addition, the equipment shall only be cleaned with a damp cloth.

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