

VARIATION

EC TYPE EXAMINATION CERTIFICATE N° ISSEP08ATEX024X/3

(14) Apparatus

- Pressure switches - B1X / B2X & D1X / D2X series.
- Temperature switches - L1X & T1X / T2X series.

(15) Description of the variation

- To change the marking IP65 by IP66 for both versions

Marking: Unchanged, except the codes:

-  II 2 D Ex tb IIIC T80°C Db IP66 and Ex tb IIIC T95°C Db IP66*

*For B1X/B2X LT version

Eventual prescriptions: Unchanged.

(16) Report N° 15113 dates of 23.11.2015 (5 pages) and 13 documents:

Drawing Number C227111 Rev AN dated of 09.10.2014 titled Explosion Proof Housing - Finish
 Drawing Number D227116 Rev AK dated of 06.10.2014 titled Housing – Explosion Proof Machined
 Drawing Number B2501018 Rev B dated of 18.11.2015 titled Nameplate, EPL Marks
 Drawing Number B2501019 Rev B dated of 18.11.2015 titled Nameplate, EPL Marks
 Drawing Number B2501020 Rev B dated of 18.11.2015 titled Nameplate, EPL Marks
 Drawing Number B1X Rev E dated of 18.11.2015 titled Pressure Switch
 Drawing Number B2X Rev E dated of 18.11.2015 titled Pressure Switch
 Drawing Number D1X Rev D dated of 18.11.2015 titled Pressure Switch
 Drawing Number D2X Rev D dated of 18.11.2015 titled Pressure Switch
 Drawing Number L1X Rev D dated of 18.11.2015 titled Temperature Switch (2 sheets)
 Drawing Number T1X Rev D dated of 18.11.2015 titled Temperature Switch (2 sheets)
 Drawing Number T1X-Q102 Rev G dated of 18.11.2015 titled Special Temperature Switch
 Drawing Number T2X Rev D dated of 18.11.2015 titled Temperature Switch (2 sheets)

(17) Special conditions for safe use: Symbol X: Unchanged.

(18) Essential Health and Safety Requirements

The Essential Health and Safety Requirements are covered by:

- The conformity to the Standards listed at (15) of variation n°2.
- All safety measures taken by the manufacturer and described in the descriptive documentation listed at (16).

Colfontaine, the 25.11.2015.

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 Marcel LAMBERT,
 Directeur.

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VARIATION

EC TYPE EXAMINATION CERTIFICATE N° ISSeP08ATEX024X/2

(14) Apparatus

- Pressure switches - B1X / B2X & D1X / D2X series.
- Temperature switches - L1X & T1X / T2X series.

(15) Description of the variation

- To integrate in the B1X/B2X series an option "LT"
- To permit the updates of standards:
From: EN 60079-0: 2012 To : EN 60079-0:2012+A11:2013
EN 60079-1 : 2007 EN 60079-1 : 2014
EN 60079-31 : 2009 EN 60079-31 : 2014

Marking: Unchanged, except the codes:

-  II 2 G Ex db IIC T6 Gb and Ex db IIC T5 Gb*
-  II 2 D Ex tb IIIC T80°C Db IP65 and Ex tb IIIC T95°C Db IP65*

Ambient temperature range :

- -40°C < Ta < +75°C and -60°C < Ta < +85°C*

*For B1X/B2X LT version

Eventual prescriptions: Unchanged.

(16) Report N° 15117 completed by 11 documents.

(17) Special conditions for safe use: Symbol X: Unchanged.

(18) Essential Health and Safety Requirements

The Essential Health and Safety Requirements are covered by:

- The conformity to the Standards listed at (15).
- All safety measures taken by the manufacturer and described in the descriptive documentation listed at (16).

Colfontaine, the 27.10.2015.

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Marcel LAMBERT,
Directeur.

VARIATION

EC TYPE EXAMINATION CERTIFICATE N° ISSeP08ATEX024X/1

(14) Apparatus

- Pressure switches - B1X / B2X & D1X / D2X series.
- Temperature switches - L1X & T1X / T2X series.

(15) Description of the variation

- To permit the updates of standards:

From:	IEC 60079-0: 2007	To:	IEC 60079-0: 2011
	IEC 61241-0: 2004		IEC 60079-0: 2011
	IEC 61241-1: 2004		IEC 60079-31: 2008
- Standard IEC 60079-1: 2007 remains identical.

Marking: Unchanged, except the codes:

-  II 2 G Ex d IIC T6 Gb
-  II 2 D Ex tb IIIC T80°C Db IP65

Eventual prescriptions: Unchanged.

(16) Report N° 13056 completed by 28 documents.

(17) Special conditions for safe use: Unchanged.

(18) Essential Health and Safety Requirements

The Essential Health and Safety Requirements are covered by:

- The conformity to the Standards listed at (9).
- All safety measures taken by the manufacturer and described in the descriptive documentation listed at (16).

Colfontaine, the 08.08.2013.

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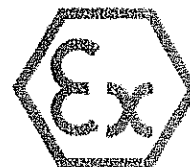
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- (1) **EC TYPE EXAMINATION CERTIFICATE**
- (2) **Equipment or protective system intended for use
in potentially explosive atmospheres
Directive 94/9/EC**
- (3) EC type examination certificate number: **ISSEP08ATEX024X**
- (4) Equipment : Pressure switches B1X / B2X & D1X / D2X series
Temperature switches: L1X & T1X / T2X series
- (5) Applicant – Manufacturer :
Barksdale Inc.
Address: 3211 Fruitland Avenue
P.O. Box 58843
Los Angeles CA 90058-0843
Manufacturer :
Barksdale GmbH
Dorn-Assenheimer Str 27
D-61203 Reichelsheim
- (7) This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) ISSEP, notified body n° 492 in accordance with article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in annex II to the Directive.

The examination and test results are recorded in confidential report n° 08049
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
IEC 60079-0: 2007 EN 60079-0:2006 (IEC 60079-0:2004) EN 60079-1: 2007 (IEC 60079-1:2007)
EN 61241-0: 2006 (IEC 61241-0: 2004) EN 61241-1: 2004 (IEC 61241-1: 2004)
- (10) If the symbol "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate
- (11) This EC TYPE EXAMINATION CERTIFICATE relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of this Directive may apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.
- (12) The marking of the equipment or protective system shall include the following indications:

	II 2 G	Ex d IIC T6 (according to standard EN 60079-0 :2006)
	II 2 D	Ex tD A21 IP 65 T80°C (according to standard IEC 61241-0:2004)
	II 2 G	Ex d IIC T6 Gb (according to standard IEC 60079-0:2007)
	II 2 D	Ex tb IIIC IP65 T 80°C (according to standard IEC 60079-0:2007)

Colfontaine, the 03.06.2008

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Lambert Marcel,
Manager.

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(13)

SCHEDULE

(14)

EC TYPE EXAMINATION CERTIFICATE No ISSEP08ATEX024X

(15) Description of the equipment:

Aluminium alloy flameproof housing containing one or two micro-switches operated by the pressure and one terminal block.

These apparatus bear the type designation :

B: bourdon pressure sensor

D: metallic diaphragm pressure sensor

1,2 : one or two micro-switches

X : flameproof housing

A, B, C, E, F, GH, GM, H, J, K, L, M, S, X, AA, HH, CC: micro-switch

Range of pressure

S: stainless steel

Connection to the process

Electrical connection (cable entry)

Options

The letter H is placed in front of the designation when hermetically micro-switches are used

Aluminium alloy flameproof housing containing one or two micro-switches operated by the temperature and one terminal block.

These apparatus bear the type designation :

T: temperature sensor with capillary tube - remote bulb

L: temperature sensor - local mounting

1,2 : one or two micro-switches

X : flameproof housing

B, E, F, GH, GM, H, J, K, L, M, S, AA, HH, CC: micro-switch

Range of temperature

S: stainless steel

Length of the capillary tube (optional)

Electrical connection (cable entry)

Options

The letter H is placed in front of the designation when hermetically micro-switches are used

The connection of the apparatus shall be made either by certified Ex d IIC cable entries or by threaded conduits. In this case a stopping box of a certified Ex d IIC model shall be placed between each conduit and the housing

The unused threaded holes shall be plugged by means of threaded certified Ex d IIC plugs

Electrical parameters and pressure ranges

To see drawings and instruction manual

Eventual prescriptions

Ambient temperature range : -40°C up to +75°C

Routine tests

The manufacturer shall make the routine verifications and tests to ensure that the electrical apparatus produced complies with the specification submitted to the testing station together with the prototype.

The housing is exempted from the overpressure routine test.

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SCHEDULE

EC TYPE EXAMINATION CERTIFICATE No ISSEP08ATEX024X

- (16) Report n° 08049 of 2.06.2008 composed of 31 pages
 The technical note from Barksdale GmbH signed on 17.03.2008 (6 pages)
 The e-mail from Barksdale Inc of 21.05.2008
 The instructions manuals (German + English) related to
- The pressure switches BS/BT/BX (6 + 6 sheets)
 - The pressure switches D1S/D2S and D1X/D2X (6 + 6 sheets)
 - The temperature switches MTH/TH/TX/MLH/LH/LX (8 + 8 sheets)
- The drawings
- B1X Rev. C of 15.05.2008
 B2X Rev. C of 15.05.2008
 C98253 Rev P of 3.11.2003
 C98254 Rev. P of 3.11.2003
 D227116 Rev. AG of 15.02.2006
 C21150 Rev. U of 18.07.2007
 B20876 Rev. Y of 19.05.2005
 B974724 of 30.05.2003 Rev. X1
 D1X Rev. B of 16.05.2008
 D2X Rev B of 16.05.2008
 C98251 Rev. Q of 3.11.2003
 C98252 Rev. P of 3.11.2003
 C227111 Rev. AL 20.07.2007
 C21145 Rev. V of 3.04.2006
 B20875 Rev. Q of 4.04.2006
 A974723 of 30.05.2003 Rev. X1
 T1X Rev. B of 16.05.2008 (2 sheets)
 T2X Rev. B of 16.05.2008 (2 sheets)
 C98371 Rev. N of 3.11.2003
 C98541 Rev.H of 3.11.2003
 T1X-Q102 Rev. C of 8.04.2005
 C981396 Rev. A of 2.11.2004
 B974726 of 3.06.2003 Rev. X1
 A20542 Rev. S of 4.05.2006
 A34654 Rev. J of 12.08.2003
 A2501016 of 14.05.2008 Rev. X1
 D227175 Rev. AD of 22.10.2003
 B211117 Rev. V of 4.04.2006
 L1X Rev. B of 16.05.2008 (2 sheets)
 C98392 Rev. M of 3.11.2003
 922-0542 Rev. A of 29.10.2003
 B250907 Rev. X5 of 5.10.2007
 B250912 Rev. X6 of 15.03.2008
 B250913 Rev. J.2 of 15.03.2008
 B250914 Rev. C2 of 15.03.2008
 B250915 Rev. D of 15.05.2008
 B2501017 of 29.05.2008 Rev.X1.2
 B2501018 of 29.05.2008 Rev.X1.2
 B2501019 of 29.05.2008 Rev.X1.2
 B2501020 of 29.05.2008 Rev.X1.2

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SCHEDULE

EC TYPE EXAMINATION CERTIFICATE N° ISSeP08ATEX024X

- (17) Special conditions for safe use: Symbol X
The metallic diaphragm is designed for an expected life time of 1 million cycles (normal use).
The operating and maintenance instructions of the device foreseen by the manufacturer shall be carefully fulfilled
The temperature class T6 may be invalidated when the temperature of the fluid (or the installation) subject of the temperature or pressure measurement exceeds 80°C
Any dust accumulation on the housing shall be avoided
- (18) Essential Health and Safety Requirements: covered by the standards listed at point 9 and by the descriptive documents of the manufacturer

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Barksdale, Inc.
A Subsidiary of Crane Co.

3211 Fruitland Avenue * Los Angeles, CA 90058-0843-USA * Phone (323) 589-6181 * Fax (323) 586-3075

EU DECLARATION OF CONFORMITY

We hereby declare that the following Temperature Switches are designed to be placed on the market for use in the explosive atmospheres described below:

Temperature Switch Type: L1X, T1X, T2X

For Gas & Dust: CE 0081  II 2 G D

Ex db II C T6 Gb

Ex tb IIIC T80°C Db IP66

-40°C ≤ Tamb ≤ +75°C

ISSeP 08ATEX024X

We further declare that we comply with the provisions of ATEX Directive 94/9 EC (until 04-19-16) and Directive 2014/34/EU (from 04-20-16) and related standards:

IEC 60079-0:2026 Ed. 8, IEC 60079-1:2014 Ed. 7, IEC 60079-31:2022 Ed. 3

Variations on this product type are representative of the range of products that have received the EU examination certification type no. ISSeP 08ATEX024X/3 (in accordance with Appendix III) and the quality system evaluation notification type no. CML ATEXQ13102 (in accordance with Appendix IV) issued by CML.

These switches are subject to use for the purpose for which they were designed and/or installed in accordance with the standards in force and/or with the manufacturer's recommendations.

07/29/2026

Year of affixing CE marking: 2020



Chet Sahanaja
Compliance Agency Specialist

The notified body responsible for monitoring is:

Eurofins E&E CML Limited | Newport Business Park | New Port Road | Ellesmere Port | CH65 4LZ