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.: IECEx LCIE 13.0003X issue No.:1

Certificate history:
Issue No. 1 (2013-11-13)
Issue No. 0 (2013-1-27)

Status: **Current**

Date of Issue: **2013-11-13** Page 1 of 4

Applicant: **A.T.X.**
E.I.N. 35 rue André Durouchez
CS 98017
80084 AMIENS CEDEX 2
France

Electrical Apparatus: **Junction boxes - type : JBEP***
Optional accessory:

Type of Protection: **Increased safety 'e', protection by enclosure 't' and intrinsic safety 'i'**

Marking:
A.T.X. -APPLETON
Address : ...
Type : JBEP*
Ex eb IIC T6 or T5 or T4
Ex tb IIIC T60℃ or T90℃ or T110℃
or Ex ia IIC T6
or combined marking eb, ia, ib according to circuits associations
IP66
IECEx LCIE 13.0003 X
Un = ... V and In = ... A or P = ... W
WARNING - DO NOT OPEN WHEN ENERGIZED
* : Dimensional codification oh the model

Approved for issue on behalf of the IECEx Certification Body: Julien GAUTHIER

Position: Certification Officer

Signature:
(for printed version)

Date: 2013-11-13

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:

Laboratoire Central des Industries Electriques (LCIE)
33 Avenue du General Leclerc
FR-92260 Fontenay-aux-Roses
France
Documents relative to LCIE certification activites (Certificates, QARs, ExTRs) can be registered under the references "LCI" or "LCIE".

L C I E

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Date of Issue: **2013-11-13** Issue No.: **1**

Manufacturer: **A.T.X.**
E.I.N. 35 rue André Durouchez
CS 98017
80084 AMIENS CEDEX 2
France

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 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 : 2011 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2006 Edition: 5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-31 : 2008 Edition: 1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
IEC 60079-7 : 2006-07 Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*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:
FR/LCIE/ExTR13.0002/01

Quality Assessment Report:

FR/LCI/QAR07.0008/05

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Schedule

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

This equipment is composed of a certified increased safety non metallic enclosure (body + cover), equipped with certified increased safety terminals or certified intrinsic safety terminals.

Terminals inside the enclosure could have same or different cross-section.

The JBEP range (Junction Boxes "increased safety E" Polyester) is made with 15 models (see document attached).

- Specific parameters of the concerned protection mode :
Maximal dissipated power : 2W up to 125W depending on the model and its content.

These enclosures can be joined together or to flameproof or increased safety enclosures, but guarantying at minimum to assembly an IP54 degree of protection.

CONDITIONS OF CERTIFICATION: YES as shown below:

Ambient operating temperatures range :
- T6 : -55℃ à +40℃
- T5 : -55℃ à +60℃
- T4 : -55℃ à +90℃

The certified integrated accessories shall comply with the relevant standards mentioned in clause 15.
The junction box, type JBEP0808060, may be equipped only with the S1 terminal block already certified LCIE 12 ATEX 3063U.

EPDM gasket type EP30-923-019 or silicone Q60-71-006 for use -55℃ up to +60℃ for all boxes: JBEP0808060, JBEP1212070, JBEP1212090, JBEP121209S0, JBEP1212120, JBEP1712090, JBEP171709S0, JBEP2312090, JBEP2120090, JBEP2120150, JBEP2532150, JBEP5032150, JBEP5032230, JBEP7532150 and JBEP7532230.

The silicon gasket Q60-71-006 for use -55℃ up to + 90℃ can be used only with the types of junction bo xes: JBEP0808060, JBEP1212070, JBEP1212090, JBEP121209S0, JBEP1212120, JBEP171709S0, JBEP2120090, JBEP2120150 and JBEP2021150.

In any case, for all different contained elements, the maximal values of the electrical parameters defined in the manufacturer descriptive documents shall not be passed over.

Clearance and creepage distance for the electrical connections shall be respected according to the concerned voltage.

The wiring of the different elements inside the enclosure must conform to the prescriptions given by the manufacturer descriptive documents.

Special conditions for safe use are described into the corresponding EC type examination certificates of any element which compose the final equipment.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Initial issue : (2013/01/27)
Assessment according to IEC 60079-0:Ed.5.0, IEC 60079-7:Ed.4 and IEC 60079-11:Ed.5 standards.

Issue 01 :
Assessment according to IEC 60079-0:Ed6.0; IEC 60079-7:Ed.4; IEC 60079-11: Ed.5 and IEC 60079-31:Ed.1 standards.
Ambient temperature range extension :
- 55℃ up to +60℃ for all boxes
- 55℃ up to +90℃ for boxes identified above.
Sealing gasket modification
Dust marking addition

Annex: IECEx LCIE 13.0003X Issue 1 Attachment 01.pdf

IECEx LCIE 13.0003 X issue 1
Attachment n°01

The JBEP range (Junction Boxes "increased safety E" Polyester is made with 15 models :

Models	Maximum allowed dissipated Power	Dimensions			
		Height	Width	Depth	Height cover
JBEP0808060	2 W	85	85	61	15
JBEP1212070	5 W	120	120	66	15
JBEP1212090	6 W	120	120	91	40
JBEP121209S0	6 W	120	120	91	15
JBEP1212120	6 W	120	120	116	40
JBEP1712090	11 W	170	120	91	40
JBEP171709S0	11 W	170	170	91	15
JBEP2312090	16 W	230	120	91	40
JBEP2120090	17 W	215	200	91	20
JBEP2120150	17 W	215	200	150	20
JBEP2532150	22 W	250	320	150	15
JBEP5032150	50 W	500	320	150	15
JBEP5032230	50 W	500	320	230	15
JBEP7532150	125 W	750	320	150	15
JBEP7532230	125 W	750	320	230	15