



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 CML 15.0074 Issue No: 2 Certificate history:
Issue No. 2 (2018-11-08)
Status: **Current** Issue No. 1 (2016-11-02)
Date of Issue: **2018-11-08** Page 1 of 4 Issue No. 0 (2015-12-09)
Applicant: **EleceX Ltd**
1 Castle Road
Falkirk
FK2 7UY
United Kingdom
Equipment: **Extension Range of Junction Boxes**
Optional accessory:
Type of Protection: **Ex d, Ex e, Ex m & Ex t**
Marking:
Ex db eb mb IIB/IIC T* Gb
Ex tb III C T*°C Db
Refer to certificate Annex for all marking options

Approved for issue on behalf of the IECEx
Certification Body:

A Snowdon MIET

Position:

Certification Officer

Signature:
(for printed version)

A Snowdon

Date:

November 8, 2018

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

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 15.0074

Issue No: 2

Date of Issue: 2018-11-08

Page 2 of 4

Manufacturer: **Elecex Ltd**
1 Castle Road
Falkirk
FK2 7UY
United Kingdom

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 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-18 : 2014 Edition:4.0	Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2015 Edition:5.0	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:

[GB/CML/ExTR15.0075/00](#)

[GB/CML/ExTR16.0163/00](#)

[GB/CML/ExTR18.0250/00](#)

Quality Assessment Report:

[GB/CML/QAR15.0010/05](#)



IECEx Certificate of Conformity

Certificate No: IECEx CML 15.0074

Issue No: 2

Date of Issue: 2018-11-08

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

There are three extension junction box arrangements covered by this certification; the Basic Extension, the 0V Extension and the ESD Extension. The ESD Extension (Emergency Shut-Down) features a separate previously certified ESD controller as an accessory.

Refer to certificate Annex for full description and Conditions of Manufacture

SPECIFIC CONDITIONS OF USE: NO



IECEX Certificate of Conformity

Certificate No: IECEx CML 15.0074

Issue No: 2

Date of Issue: 2018-11-08

Page 4 of 4

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

Issue 1

This issue introduced the following modification:

- i. The change of manufacturer's address.

Issue 2

This issue introduced the following modification:

- i. The change of manufacturer's address.

Annex:

[IECEX CML 15.0074 Iss 2 Annex.pdf](#)

Annexe to: IECEx CML 15.0074 Issue 2
Applicant: Elecex Ltd.
Apparatus: Extension Range of Junction Boxes



Description

The Basic Extension Unit comprises of a component approved increased safety plastic enclosure, which may be mounted in a metal frame. There are four power sockets mounted on the walls of the enclosure. When the metal frame is used, this part is earthed via a wire connected to a tab mounted around the gland. Strain relief for the cable is provided by a P-clip mounted on the frame. At the opposite end of the factory installed cable there is an equipment approved plug.

Connections to external circuits are made by the end user by fitting the corresponding plugs/sockets to those provided on the equipment.

The maximum electrical ratings are 250 Vac, 16 A.

0V Extension

The 0V Extension Unit comprises of two component approved increased safety plastic enclosures mounted adjacent to each other and which may be mounted in a metal frame.

When the metal frame is used, this part is earthed via a wire connected to a tab mounted around the gland. Strain relief for the cable is provided by a P-clip mounted on the frame. At the opposite end of the factory installed cable there is an equipment approved plug.

The 0V Extension contains an assortment of terminals, contactors, switches and fuses to distribute and control the power supply to attached equipment.

The 0V Extension has four power sockets mounted on the walls of the enclosure and one earthed metal connector. The metal connector is to allow connection of a controlling device which can be used to remotely de-energise the sockets on the 0V Extension by applying/removing a healthy signal to the 0V Extension, power to the control circuit is supplied by the controlling device.

Connections to external circuits are made by the end user by fitting the corresponding plugs/sockets to those provided on the equipment.

The maximum electrical ratings are 250 Vac, 16 A.

ESD Extension

The ESD Extension is the same as the 0V Extension in all aspects apart from the metal connector which connects to a separately ATEX and IECEx certified ESD controller. Unlike the 0V Extension, the ESD Extension provides power to the control circuit.





Marking

There are several marking options, as specified below:

Ex db eb mb* IIB/IIC** T6 or T5*** Gb

Ex tb IIIC T85°C or T100°C*** Db

Ta= -20°C or -40°C to +40°C or +55°C

* 'mb' is marked on the 0V and ESD units

** IIC is marked when a minimum ambient of -20°C is applied. IIB is marked when a minimum ambient of -40°C is applied.

*** T6/T85°C is marked when a maximum ambient of +40°C is applied. T5/T100°C is marked when a maximum ambient of +55°C is applied

Conditions of Manufacture

The following are conditions of manufacture:

- i. The equipment covered by this certificate includes previously certified devices. It is the manufacturer's responsibility to continually monitor the status of these certified devices. These devices shall be installed in accordance with their certificates, instruction manuals and with IEC 60079-14. The manufacturer shall also inform Certification Management Limited of any changes to these devices that may impact upon the explosion safety aspects of their equipment. A copy of the appropriate certification documentation for these devices shall be provided to the end user.
- ii. Each unit shall be subjected to a routine dielectric strength test in accordance with IEC 60079-7:2015, clause 7.1. A test voltage of 1500 V r.m.s. shall be applied for 1 minute. Alternatively, a test voltage of 1800 V r.m.s. shall be maintained for 100 ms. No dielectric breakdown or flashover shall occur.