



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 ITS 16.0011X

Issue No: 1

Certificate history:

Issue No. 1 (2019-02-25)

Issue No. 0 (2017-03-17)

Status: **Current**

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Date of Issue: **2019-02-25**

Applicant: **Eaton Electrical Systems Ltd Trading as Raxton, Redapt or Capri**
Kingsway South
Westgate
Aldridge
West Midlands
WS9 8FS
United Kingdom

Equipment: **Gland Adaptors, Reducers and Earthead Adaptors**

Optional accessory:

Type of Protection: **Ex db Ex eb and Ex tb**

Marking:

IECEX ITS 16.0011X

Types AR Male/Male and type AU and AX Female/Female Adaptors, Types AB and AJ Gland Adaptors, Types BB and BJ Gland Reducers and DG and DN Earthead Adaptors and Reducers

Ex d I/IIC Mb/Gb

Ex e I/IIC Mb/Gb

Ex tb III C Db IP 6X

Ta = see schedule

Type AB & AJ Adaptors, Type BB & BJ Reducers

Ex e IIC Gb, Ex tb III C Db IP 66

Ta = see schedule

*Approved for issue on behalf of the IECEx
Certification Body:*

P Moss

Position:

Certification Officer

*Signature:
(for printed version)*

Date:



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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:

Intertek Testing & Certification Limited
ITS House, Cleeve Road,
Leatherhead,
Surrey, KT22 7SA
United Kingdom





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Manufacturer: **Eaton Electrical Systems Ltd Trading as Raxton, Redapt or Capri**
Kingsway South
Westgate
Aldridge
West Midlands
WS9 8FS
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 Explosive atmospheres - Part 0: General requirements
Edition:6.0
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
IEC 60079-7 : 2015 Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

*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/ITS/ExTR16.0013/00](#) [GB/ITS/ExTR16.0013/01](#)

Quality Assessment Report:

[GB/SIR/QAR06.0014/08](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Types AR, BR, AB, AU, AX, AJ Adaptors, Types BB & BJ Reducers and Types DG and DN Earthlead Adaptors are designed to convert an existing cable entry aperture, in the associated apparatus, to a different thread form and/or size. Each device comprises a hollow body with a male thread at one end and a female thread at the other. Entry threads are between M12 and M120.

The Type AR and BR Male/Male Adaptor and Types AU and AX Female/Female Adaptors have thread forms of between M16 and M75. Thread combinations are such that a maximum of one 'standard' size difference is maintained. Type designations determine thread combinations and body profiles.

Conditions of manufacture

The Manufacturer shall comply with the following:

1. The female threads of adaptors shall be restricted to one size larger than the male thread size.
2. When these entry devices are manufactured in Type BKV 140 material, they shall be to be marked with BKV 140.
3. These products shall be marked in accordance with the information as specified in this certificate and related reports.
4. An increase of up to two step thread sizes is permitted on the AB & AJ Series, in addition, equal sizes are also allowed.
5. These products shall be marked in accordance with the information as specified in this certificate and related reports.
6. Products constructed from Aluminum shall not to be marked for Group I applications.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. When used for Increased Safety ('Ex e') or Protection by enclosure (Ex tb) applications, a suitable method of sealing to the associated enclosure shall be provided.
2. Products constructed from Aluminium are to be positioned where they are subject to low risk of mechanical impact only.

Type AB & AJ Adaptors, Type BB & BJ Reducers

- 1 All entry devices shall only be installed where there is a low risk from mechanical impact.
- 3 Only one adaptor or reducer is to be used with any single cable entry on the associated equipment.
- 4 The interfaces between these devices and the associated enclosure cannot be defined; therefore, it is the user's responsibility to ensure that the appropriate ingress protection level is maintained at these interfaces.
- 5 When manufactured in BKV 30 NI type material, the entry devices are suitable for a service temperature range of -20°C to +65°C.
- 6 When manufactured in BKV 140 type material, the entry devices are suitable for a service temperature range of -20°C to +45°C; items made from this material are marked with 'BKV 140'.
- 7 When the entry devices are manufactured in BKV 140 type material, they shall be protected from exposure to light; items made from this material are marked with 'BKV 140'.



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8 Service temperature ranges have been applied as follows:

Type of protection Service Temperature

Ex d I Mb -60°C to +200°C*

Ex e I Mb -50°C to +150°C*

Ex d IIC Gb -60°C to +200°C*

Ex e IIC Gb -50°C to +200°C*

Ex tb III C Db -50°C to +200°C*

* Unless fitted with an interface sealing O-ring with lower properties, temperatures shall then be limited as per the manufacturer's instructions



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

Issue 1:

Update of QAR to reflect the certificate holder's new entity and address. Model Designation AR-U re-introduced which is recognised as a universal type certified to Ex db, Ex eb and Ex tb