


EU-Type Examination Certificate



Intertek

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1. **EU-TYPE EXAMINATION CERTIFICATE**
2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU**
3. **EU-Type Examination Certificate Number: ITS16ATEX101336X Issue 0**
4. **Product:** Type AR Male/Male and types AU / AX Female/ Female Union Adaptors. Types AB and AJ Gland Adaptors, Types BB and BJ Gland Reducers and DG / DN Earthlead Adaptors and Reducers,
5. **Manufacturer:** Eaton Electrical Systems Ltd Trading as Raxton or Redapt
6. **Address:** Kingsway South
Westgate
Aldridge
West Midlands
W59 8FS
7. This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
8. Intertek Testing and Certification Limited, Notified Body number 0359 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council dated 26 February 2014, certifies that the product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in confidential Intertek Report Ref G102174344B Issue 1 dated September 2016
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012+A11:2013, EN 60079-1:2014, EN 60079-7:2015 and EN 60079-31:2014 except in respect of those requirements referred to at item 16 of the Schedule.
10. If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Safe Use specified in the Schedule to this certificate.
11. This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
12. The marking of the product shall include the following:
 II Types AR and BJ Male/Male and type AU and AX Female/Female Union Adaptors, Types AB and AJ Gland Adaptors, Types BB and BJ Gland Reducers and DG and DN Earthlead Adaptors and Reducers
2GD Ex d I/IIC Mb/Gb
I M2 Ex e I/IIC Mb/Gb
Ex tb IIIC Db IP 6X Ta = see schedule
Type AB & AJ Adaptors, Type BB & BJ Reducers
Ex e IIC Gb, Ex t IIIC Db IP 66 Ta = see schedule

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Vijay K. Varma

V K Varma
Certification Officer
14 Nov 2016



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13. Description of Equipment or Protective System

The Types AR, BJ, 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 BJ Male/Male Adaptor and Types AU and AX Female/Female Adaptors have thread forms of between M12 and M120. Thread combinations are such that a maximum of two 'standard' size differences is maintained for Increase in thread and no restriction on reduction. Type designations determine thread combinations and body profiles.

Material Options

Brass to BS 2874

Brass BS 2872

Stainless Steel

Mild Steel

Aluminium

Bronze

Type Durethan BKV 30 N1 Glass Filled Nylon 6

• Type Durethan BKV 140 Glass Filled Nylon 6

Surface Coating: Nickel, Zinc, Electroless Nickel

Thread Options

Metric to BS 3643

ET Conduit to BS 31

PG to DIN 40430

BSPP to BS 2779

BSPT to BS 21

NPT to ANSI/ASME B1.20.1

In addition any other thread form that also complies with the requirements of IEC 60079-1 tables 3 or 4 and clause C2.2 (as applicable) are also permitted

14. Report Number

Intertek Report Ref: G102174344B Issue: 1 Dated: September 2016

15. Special Conditions of Certification

(a). Specific Conditions of Safe Use

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 and shall not be marked as suitable for Group I.

Type AB & AJ Adapters, 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.

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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'.

8 Service temperature ranges have been applied as follows:

Type of protection Service Temperature

Ex d I Mb -20°C to +60°C*

Ex e I Mb -50°C to +150°C*

Ex d IIC Gb -20°C to +60°C*

Ex e IIC Gb -50°C to +200°C*

Ex tb IIIC 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

(b). Conditions of Manufacture - Routine Tests

- None

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16. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report Ref: G102174344B Issue: 1 Dated: September 2016

17. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
AB & AJ SERIES ADAPTORS	AB-AJ	1	05-04-2016
AB-AJ & BB-BJ SERIES ADAPTORS & REDUCERS	AB-AJ- BB-BJ	1	05-04-2016
AR-AU-AX SERIES ADAPTORS	AR-AU-AX	1	05-04-2016
BB-BJ SERIES REDUCERS	BB-BJ	1	05-04-2016
DG SERIES	DG	2	01-02-2012
FB-FL SERIES UNIONS	FB-FL	1	05-04-2016
MARKING DRAWING	IECEXITS16.0011X ITS16ATEX101336X	1	15-11-2016

18. Details of Certificate changes Issue 1

Original

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