



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 UL 14.0036X Issue No: 2 Certificate history:
Status: **Current** Page 1 of 6 [Issue No. 2 \(2015-06-11\)](#)
[Issue No. 1 \(2015-04-28\)](#)
[Issue No. 0 \(2015-02-25\)](#)

Date of Issue: **2015-06-11**

Applicant: **Raychem Rpg Ltd.**
Ceat Mahal Annexe 463
Dr Annie Besant Road
Mumbai, 400030
India

Electrical Apparatus: **AJB Series Junction Boxes**
Optional accessory:

Type of Protection: **Increased Safety "e" and Dust "tb"**

Marking: Ex e IIC T6 Gb

Ex e IIC T5 Gb

Ex tb IIIC T85°C Db

For model numbers Ex-E-AJB-160116091-01 and Ex-E-AJB-26016090-01 ambient temperature and the assigned temperature class is as follows:

-45°C to +50°C for T6, -45°C to +65°C for T5, -45°C to +65°C for T85

For the rest of the models ambient temperature and the assigned temperature class is as follows:

-50°C to +50°C for T6, -50°C to +65°C for T5, -50°C to +65°C for T85°C

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

Paul T. Kelly

Position:

Principal Engineer, Global Hazardous Locations

*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:

UL LLC
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America





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Manufacturer: **Raychem Rpg Ltd.**
Ceat Mahal Annexe 463
Dr Annie Besant Road
Mumbai, 400030
India

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 Explosive atmospheres - Part 0: General requirements
Edition:6.0
IEC 60079-31 : 2008 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:1
IEC 60079-7 : 2006-07 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:4

*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:

US/UL/ExTR14.0058/00 US/UL/ExTR14.0058/01 US/UL/ExTR14.0058/02

Quality Assessment Report:

US/UL/QAR13.0005/00



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Raychem AJB Series Junction Boxes utilize already certified Ex Component terminals as well as empty enclosures. The enclosures consist of a gasketed joint between cover to body and are provided with options for gland plates.

Please see Annex for Nomenclature details.

CONDITIONS OF CERTIFICATION: YES as shown below:

All conductors/cables shall be certified copper wire.

When installing cable or conduit entries, the cable/conduit entries must be EX certified as increased safety 'e' and protection by enclosure 'tb' and have a minimum IP66 rating equal to the marking on the enclosure.

All unused conduit/cable openings must be fitted with certified close up plug equivalent of the apparatus and must be marked with an IP66 rating.

After installation, all creepage distances and clearances shall be according to Table 1 in IEC 60079-7:2007.

Each terminal shall not be specified to accommodate more than one individual conductor in a clamping point.

For screwless connections intended for Class 5 or Class 6 fine stranded conductors according to IEC 60228, the fine stranded wire shall be equipped with a ferrule or the termination shall have a method to open the clamping mechanism so that the conductors are not damaged during installation of the conductor.



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The end user shall provide bonding means as necessary.



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

Issue 1: Additional models added and update on temperature marking.

Issue 2: Addition of model Ex-E-AJB-1258057-01 and different ambient temperature ranges for T code.

Annex:

[Annex to IECEX UL 14.0036X Issue 2.pdf](#)

Annex to IECEx UL 14.0036X Issue 2

Nomenclature:

Ex - EQP - AJB 330 230 110 01
I II III IV V VI VII

I- Type of Enclosure Application -

Ex - Enclosure applicable in hazardous location. Ex e

II- Enclosure ATEX Certification Level -

EQP - Enclosure Assembly with Terminal Installed

III – Enclosure Material and Type -

AJB – Powder Coated Aluminium and aluminium alloys Castings (ALS112) Terminal Enclosure

IV – Enclosure Length

XXX – Any two or three digit number that indicates the outside box length (in mm)

V – Enclosure Width

XXX – Any two or three digit number that indicates the outside box width (in mm)

VI – Enclosure Depth

XXX – two or three digit number that indicates outside box depth (in mm)

VII - – Revision in combination of terminals

XX – any two or three digit number that indicates the new terminal combination (optional)