



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Component intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 18ATEX3261U** Issue: **0**

4 Component: **Ex Empty Enclosure, Type RJ, GRJ and SRJ**

5 Applicant: **Raychem RPG Pvt Ltd.**

6 Address: **Ceat Mahal Annexe 463
Dr. Annie Besant Road Worli
Mumbai 400030
India**

7 This component and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of a component intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN IEC 60079-0:2018 EN IEC 60079-7:2015/A1:2018 EN 60079-31:2014

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

10 The sign 'U' is placed after the certificate number to indicate that the product assessed is a component and may be subject to further assessment when incorporated into equipment. Any limitations of use are listed in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified component. If applicable, further requirements of this Directive apply to the manufacture and supply of this component.

12 The marking of the component shall include the following:



II 2 GD
Ex eb IIC Gb
Ex tb IIIC Db

Project Number 70189920

C Ellaby
Deputy Certification Manager

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SCHEDULE

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13 DESCRIPTION OF COMPONENT

Raychem RPG Ex Empty enclosures may be used for fitting ATEX approved terminals and components. The enclosures are made of different materials, depending on the enclosure type. Type RJ is made of die cast aluminium, Type GRJ is made of glass reinforced polyester (GRP), and Type SRJ is made of either Stainless Steel or Mild Steel.

Type RJ and Type GRJ enclosures consists of a lid and a base secured together with the help of stainless steel captive screws and a sealing system which ensure ingress protection rating of IP 66. Type SRJ enclosures also consists of a lid and a base but these are secured together by SS or MS Hex screws with rubber washer and a sealing system which ensures ingress protection rating of IP 64.

Type RJ, Aluminium Enclosures

Type RJ enclosures utilize a die cast aluminium enclosure (minimum thickness 3 mm) that may be used for fitting ATEX approved terminals and components. The enclosure is available with powder coating (max. thickness of 80µm) as well. The terminals and the components would be fitted onto metal TS32 or TS35 mounting rails, or metal TS15 mounting rails for the smaller types, the rails may be fitted vertically or horizontally. The terminals and the components may be fitted onto a mounting plate instead of the DIN rails.

Various sizes of enclosures are used and all enclosures use a gasket seal on the lid, this is fixed by a groove and an adhesive. The gasket is made of either silicone rubber or Viton rubber. The enclosures are mounted via fixing holes within the enclosure, but outside the sealed compartment. Gland entries may be fitted to any of the side walls. Any machining can be provided on any face of the enclosure, provided that it has greater remaining surface area than the worst case test representatives and the openings are closed by an IP rated component with an IP rating equivalent to, or greater than, the IP rating of the enclosure.

Design Options - Alternative intermediate size Empty Enclosures may be manufactured, with any given dimension no larger than the respective dimension of the larger enclosure or smaller than the respective dimension of the smallest enclosure, and the maximum clearance between two screws shall be less than that of RJ 403111.

The table below contain all available enclosure references and sizes.

Part Code	Length (A) (mm)	Width (B) (mm)	Depth (C) (mm)
RJ 586434	58	64	34
RJ 986434	98	64	34
RJ 156434	150	64	34
RJ 758057	75	80	57
RJ 128057	125	80	57
RJ 178057	175	80	57
RJ 258054	250	80	54
RJ 101080	100	100	80
RJ 121280	122	120	80
RJ 121290	122	120	90

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Part Code	Length (A) (mm)	Width (B) (mm)	Depth (C) (mm)
RJ 161080	160	100	80
RJ 221280	220	120	80
RJ 221290	220	120	90
RJ 141490	140	140	90
RJ 161690	160	160	90
RJ 201490	200	140	90
RJ 261690	260	160	90
RJ 361690	360	160	90
RJ 181810	180	180	100
RJ 281810	280	180	100
RJ 202311	200	230	110
RJ 202318	200	230	180
RJ 282311	280	230	110
RJ 332311	330	230	110
RJ 332318	330	230	180
RJ 402311	400	230	110
RJ 403111	404	313	110
RJ 403118	404	313	180
RJ 603111	600	310	110
RJ 603118	600	310	180

Type GRJ, Glass Reinforced Polyester (GRP) Enclosures

Type GRJ enclosures are manufactured from black glass reinforced polyester (minimum wall thickness 4 mm for all walls except the wall upon which the ground continuity plate is mounted which is 6 mm thick) and may be fitted with ATEX approved terminals and components. The terminals and the components would be fitted onto metal TS32 or TS35 mounting rails, or metal TS15 mounting rails for the smaller types, the rails may be fitted vertically or horizontally. The terminals and the components may be fitted onto a mounting plate instead of the DIN rails. Optionally, earth continuity plate may be installed on the walls inside the enclosures.

Various sizes of enclosures are used and all enclosures use a gasket seal on the lid, this is fixed by a groove and an adhesive. The gasket is made of either silicone rubber or Viton rubber. The enclosures are mounted via fixing holes within the enclosure, but outside the sealed compartment. Gland entries may be fitted to any of the side walls. Any machining can be provided on any face of the enclosure, provided that it has greater remaining surface area than the worst case test representatives and the openings are closed by an IP rated component with an IP rating equivalent to, or greater than, the IP rating of the enclosure.

Design Options - Alternative intermediate size Empty Enclosures may be manufactured, with any given dimension no larger than the respective dimension of the larger enclosure or smaller than the respective dimension of the smallest enclosure, and the maximum clearance between two screws shall be less than that of GRJ 404012.

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The table below contain all available enclosure references and sizes.

Part Code	Length (A) (mm)	Width (B) (mm)	Depth (C) (mm)
GRJ 807555	80	75	55
GRJ 117555	110	75	55
GRJ 167555	160	75	55
GRJ 197555	190	75	55
GRJ 167575	160	75	75
GRJ 807575	80	75	75
GRJ 117575	110	75	75
GRJ 197575	190	75	75
GRJ 121290	122	120	90
GRJ 161690	160	160	90
GRJ 221290	220	120	90
GRJ 261690	260	160	90
GRJ 361690	360	160	90
GRJ 252512	255	250	120
GRJ 252516	255	250	160
GRJ 402512	400	250	120
GRJ 402516	400	250	160
GRJ 404012	400	405	120
GRJ 404020	400	405	201
GRJ 602512	600	250	120
GRJ 602516	600	250	160

Type SRJ, Stainless Steel or Mild Steel Enclosures

Type SRJ enclosures are manufactured from either stainless steel or mild steel with a corrosion resistance paint coating (minimum thickness 1.5 mm for enclosure size up to 458 x 388 x 200 except for SRJ101060 which is min. 1.2 mm thick. For the rest of enclosures, minimum thickness is 2 mm), and may be fitted with ATEX approved terminals and components. The terminals and the components would be fitted onto metal TS32 or TS35 mounting rails, or metal TS15 mounting rails for the smaller types, the rails may be fitted vertically or horizontally. The terminals and the components may be fitted onto a mounting plate instead of the DIN rails.

Gland entries may be fitted to any of the side walls. Optionally gland plates may be utilized (minimum thickness 2 mm for all except for SRJ101060 which is min. 1.5 mm thick), and fitted to any of the side walls. Various sizes of enclosures are used and all enclosures use a gasket seal on the lid and gland plates (if used), this is fixed by an adhesive. The gasket is made of silicone rubber or Viton rubber. Any machining can be provided on any face of the enclosure, provided that it has greater remaining surface area than the worst case test representatives and the openings are closed by an IP rated component with an IP rating equivalent to, or greater than, the IP rating of the enclosure.



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The enclosures are mounted via fixing holes within the enclosure, but outside the sealed compartment. Optionally Back-straps/Mounting lugs may be welded to the back of the enclosure to provide fixings. Hinges may be fitted to the lid and they are welded if used.

Design Options - Alternative intermediate size Empty Enclosures may be manufactured, with any given dimension no larger than the respective dimension of the larger enclosure or smaller than the respective dimension of the smallest enclosure, and the maximum clearance between two screws shall be less than that of SRJ 524215.

The table below contain all available enclosure references and sizes.

Part Code	Length (A) (mm)	Width (B) (mm)	Depth (C) (mm)
SRJ 101060	100	100	60
SRJ 111165	110	110	65
SRJ 141493	143	143	93
SRJ 151590	150	150	90
SRJ 191910	190	190	100
SRJ 191918	193	193	186
SRJ 221613	220	165	130
SRJ 211613	218	168	130
SRJ 211621	218	168	210
SRJ 372115	377	218	156
SRJ 372121	377	218	210
SRJ 231513	229	152	130
SRJ 262615	260	265	150
SRJ 262620	260	265	200
SRJ 303015	306	306	150
SRJ 303020	306	306	200
SRJ 352615	350	265	150
SRJ 352620	350	265	200
SRJ 373715	377	377	156
SRJ 373721	377	377	210
SRJ 453815	458	382	150
SRJ 453820	458	388	200
SRJ 484815	480	480	150
SRJ 484820	480	480	200
SRJ 524215	527	427	156
SRJ 535315	530	530	150
SRJ 525221	527	527	210
SRJ 553615	550	360	150
SRJ 553620	550	360	200
SRJ 765015	762	508	150

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Part Code	Length (A) (mm)	Width (B) (mm)	Depth (C) (mm)
SRJ 765020	762	508	200
SRJ 825715	827	577	156
SRJ 825721	827	577	210
SRJ 825730	827	577	300
SRJ 926120	920	610	200
SRJ 976720	977	677	208
SRJ 976715	977	677	156
SRJ 976730	977	677	300
SRJ 117715	1177	777	156
SRJ 117721	1177	777	210
SRJ 117730	1190	770	300
SRJ 20020060	2000	2000	600

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	28 February 2019	R0189920A	The release of the prime certificate.

15 SCHEDULE OF LIMITATIONS

- 15.1 All cable entry devices shall be suitably certified for protection types of 'eb' and 'tb', and all unused openings shall be fitted with suitable blanking elements with protection types of 'eb' and 'tb' so that min. ingress protection of IP 64 is maintained.
- 15.2 The suitability of all components/terminals employed inside shall be considered in the end use application.
- 15.3 Internal and external earthing studs provide effective connection of a protective earthing (PE) conductor. Size of the protective earthing conductor shall be selected based on the phase conductors and table 12 of EN IEC 60079-0:2018.
- 15.4 Service temperature may exceed +70 °C. Cables suitable for use at this temperature shall be used.
- 15.5 The service temperature is determined by the gasket material used. The user shall ensure that the enclosures are used within the correct service temperature range.

Enclosure Type	Gasket Material	Service Temperature
Aluminium (RJ Series)	Silicone	-60°C to +140°C
	Viton	-30°C to +150°C
Glass Reinforced Polyester (GRJ Series)	Silicone	-60°C to +110°C
	Viton	-30°C to +110°C
Steel (SRJ Series)	Silicone	-60°C to +140°C
	Viton	-30°C to +150°C

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16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

17 CONDITIONS OF MANUFACTURE

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.
- 17.3 When marking the enclosures, the manufacturer shall consider the gasket material used and shall not apply a service temperature that contradict this range.
- 17.4 Gland entries may be fitted to any of the side walls, within the following constraints – a minimum of 5 mm is maintained between the cable entry holes and also: (a) the distance between hole centres will clear the across corners dimension of adjacent cable glands/plugs/locknuts (b) the distance from the hole centre to the edge of the enclosure must be sufficient to clear the across corners dimension of the cable glands/ lugs/locknuts.
- 17.5 In addition the entry hole shall be sized to be no larger than 0.7 mm above the major diameter of the entry thread if it is a plain entry, and shall be tapered threads with not less than 3 threads or parallel threads with not less than five threads, with a tolerance class of 6H or better according to ISO 965-1 if it is a threaded entry.

Certificate Annexe



Certificate Number: Sira 18ATEX3261U
Component: Ex Empty Enclosure, Type RJ, GRJ and SRJ
Applicant: Raychem RPG Pvt Ltd.

Issue 0

Drawing	Sheets	Rev.	Date (Sira Stamp)	Title
EX-RJ-GSK	1 of 1	00	19 Feb 19	RJ Gasket
EX-RJ-STD-00	1 to 3	00	19 Feb 19	RJ Standard Drawing
EX-RJ-U-LABEL	1 of 1	00	27 Feb 19	RJ Marking Label
EX-GRJ-GSK	1 of 1	00	19 Feb 19	GRJ Gasket
EX-GRJ-STD-00	1 to 3	00	19 Feb 19	GRJ Standard Drawing
EX-GRJ-U-LABEL	1 of 1	00	27 Feb 19	GRJ Marking Label
EX-SRJ-GSK	1 of 1	00	19 Feb 19	SRJ Gasket
EX-SRJ-STD-00	1 to 3	00	19 Feb 19	SRJ Standard Drawing
EX-SRJ-U-LABEL	1 of 1	00	27 Feb 19	SRJ Marking Label

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