TYPE-EXAMINATION CERTIFICATE

1. **Type-examination Certificate (Module A)**
2. **Equipment or Protective System intended for use in potentially explosive atmospheres (Directive 2014/34/EU)**
3. **Type examination certificate Nr** **ITS-I 20 ATEX 251401X R.2**
4. **Product:** Led Luminaires, Model RINOLED-EX RL-Z2
5. **Manufacturer:** Palazzoli S.p.A.
6. **Address:** Via Federico Palazzoli, 31
   25128 Brescia BS
   Italy
7. This product and any acceptable variation thereto are specified in the schedule to this certificate and therein referred to.
8. INTERTEK ITALIA S.p.A., certifies that the equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective system intended for use in potentially explosive atmosphere, given in Annex II of the Directive.

   The examination and tests results are recorded in confidential technical evaluation Intertek Report Nr. 200025140UDI-ATXa, Nr. 200025140UDI-ATXa rev1 and Intertek Report Nr 200030241UDI-ATXa
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN IEC 60079-0:2018, EN IEC 60079-7:2015/A1:2018 and EN 60079-18:2015/A1:2017 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 Special Conditions for Safe Use specified in the schedule to this certificate.
11. This 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 3G Ex ec mc IIC Tx Gc
Tamb:
For Emergency version (EXE1 and EXE3 models, digit [aaaa]):0°C up to +45°C
For non-Emergency version (EXN0 models digit [aaaa]):
minimum ambient temperature is: -40°C or -35°C;
maximum ambient temperature is: +55°C or +60°C

Certificate issue date

Alessandro Savio
Certification Officer
Intertek Italia S.p.A.

SCHEDULE

TYPE EXAMINATION CERTIFICATE NUMBER: ITS-I 20 ATEX 251401X R.2

13. DESCRIPTION OF THE EQUIPMENT OR PROTECTIVE SYSTEM

The equipment is a Waterproof LED light fixtures with metal body, glass diffuser and electronic Control gear for LED modules (Driver) and Electronic Control gear for emergency lighting (Inverter). The body of the enclosure can be made of stainless steel AISI 304, 316L or painted steel.
Temperature class is in accordance with the table below:

Model	Max ambient temperature range [°C]	Temperature class	
		Gas	Dust
RINOLED-EX RL-Z2:			
EXE version	+35° or +45°C	T6	T85°C
EXN0 version with LED driver output current < 400 mA	+60°C	T5	T85°C
EXN0 version with LED driver output current ≥ 400 mA	+55°C	T5	T85°C

The type code of product is RINOLED-EX RL-Z2-aaaa-bb-ccc-ddd-eeee-fff-gg-hh-ii-jjj-kkk-llll-mmmm-nnn, where:

digit	Meaning
RINOLED-EX	Commercial product name
RL-Z2-aaaa	Version RL-Z2 where aaaa is: • EXN0: ATEX light fixture - Non-Emergency for Ex Zones 2 • EXE1: ATEX light fixture - Emergency 1h for Ex Zones 2 • EXE3: ATEX light fixture - Emergency 3h for Ex Zones 2
bb	Length: • 69: Length 690 mm • 13: Length 1300 mm
ccc	Diffuser material: • TGL: Transparent Glass • OGL: Opal Glass (Satin finished)
ddd	Body material: • 304: AISI 304 • 316: AISI 316L • PSG: Painted Galvanised Steel
eeee	Ambient temperature: See table below
fff	Number of LED: • 048: 1 x 48 LED (only for Length 690 mm) • 072: 1 x 72 LED (only for Length 690 mm) • 096: 2 x 48 LED (only for Length 1300 mm) • 144: 2 x 72 LED (only for Length 1300 mm)
gg	Dimming type: 00: No dimming

SCHEDULE

TYPE EXAMINATION CERTIFICATE NUMBER: ITS-I 20 ATEX 251401X R.2

hh	Colour rendering index (CRI): • 80: Ra ≥ 80 (typical) • hh: Other values ≠ 80
ii	Colour temperature: • 40: 4000K • Other values between 3000 K (ii = 30) to 6500 K (ii = 65)
jjj	LED driver output current: • jjj: 325 mA to 500 mA with step of 25 mA
kkk	Optic Type: • 000: No lens (Extra wide beam distribution 110°) • WBC: Wide beam comfort distribution (88°) • MBD: Medium beam distribution (60°) • NBD: Narrow beam distribution (30° x 90°) • Three digit to identify the other type of optic
llll	Type of cable gland: • PL20: M20 Plastic cable gland (*) • PL25: M25 Plastic cable gland (*) • BR20: M20 Nickel plated cable gland (*) • BR25: M25 Nickel plated cable gland (*) • AR20: M20 Nickel plated cable gland for armoured cable (*) • AR25: M25 Nickel plated cable gland for armoured cable (*)
mmmm	Number of cable entry: • 1000: 1 entry (Mains) • 1100: 2 entries at Mains side • 1110: 2 entries at Mains side + 1 entry at other side • 1111: 2 entries at Mains side + 2 entries at other side • mmmm: Other combinations of entries
nnn	Custom characteristics: • 000: Standard version • nnn: Code to handle special versions such as pre-mounted supply cable with or without plug/connector, different external colour, etc.

(*) With plastic cable gland, ta min. = -35 °C
With Nickel-plated brass cable gland, ta min= -40°C

Ambient temperature range table, only for RINOLED-EX RL- Z2 is

Ambient temperatures ("eeee" field of Z2-EX.. versions)					
Code "eeee"	ta range	Version	Length	N. LED	LED Driver output current (mA)
0045	0 °C … +45 °C	Z2-EXE1	690	All	325 … 500
			1300		
		Z2-EXE3	690		
			1300		
3555	-35 °C … +55 °C	Z2-EXN0	690	All	425 … 500
			1300		
3560	-35 °C … +60 °C	Z2-EXN0	690	All	325 … 400
			1300		

SCHEDULE

TYPE EXAMINATION CERTIFICATE NUMBER: ITS-I 20 ATEX 251401X R.2

4055	-40 °C … +55 °C	Z2-EXN0	690 1300	All	425 … 500
4060	-40 °C … +60 °C	Z2-EXN0	690 1300	All	325 … 400

14. DRAWINGS AND DOCUMENTS

TITLE	DOCUMENT Nr	LEVEL	DATE
* Technical File Waterproof light fixtures RINOLED-EX series Type of protection Ex eb mb IIC / Ex tb IIIC - Ex ec mc IIC / Ex tb IIIC	Doc. N. 423	01	2022-08-25
*ATEX LIGHTING LED FIXTURES for fixed installation – Safety instructions Series RINO LED-EX	C010268	00	2022-08-10
*ATEX LIGHTING LED FIXTURES for fixed installation – Safety instructions Series RINO LED-EX	C010269	01	2022-08-10
* Cover page of Annex 01 (Datasheets) of the Technical File	Annex 01TF Doc. N. 423	01	2022-09-08
* Annex 04 of Technical File - Explanation of the markings	Annex 04TF Doc. N. 423	01	2022-08-10
* Cover page of Annex 02 of Technical File Materials Technical Datasheets	Annex 02TF Doc. N. 423	01	2022-08-10
* Cover page of Annex 03 of Technical File Drawings and schemes	Annex 03TF Doc. N. 423	01	2022-08-25
Istruzione fissaggio guarnizioni sul corpo plafoniera inox standard e atex	N° 137	02	24-06-2015
Definizione spessore del rivestimento superficiale, tipologia di vernice a polvere, caratteristiche di adesione e resistenza, pretrattamento.	N° 104	7	03/04/2019

Copies of the above listed documents are kept at Intertek Italia S.p.A. archive.

15. SPECIFIC CONDITIONS OF USE

- See user manual to minimize the risk of electrostatic charge

16. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

The relevant Essential Health and Safety Requirements have been identified and assessed in Intertek Report Nr. 200030241UDI-ATXa

17. ROUTINE (FACTORY) TESTS

SCHEDULE

TYPE EXAMINATION CERTIFICATE NUMBER: ITS-I 20 ATEX 251401X R.2

- Dielectric test was performed in accordance with IEC 60598-1 - Luminaires - Part 1: General requirements and tests at 1000V+2U per 60s.
  In accordance with this Standard the routine test can be performed at this condition:
  1000V+2U per 60s; or 1.2*(1000V+2U) per 100ms.
  Alternatively, the manufacturer shall conduct the test at 1.2 times the test voltage for at least 100ms.
  Results must be recorded.

18. **DETAIL OF CERTIFICATE CHANGES**

R.1 (24 Mar 2021):

- Typing error on marking from “Ex ec mb” to “Ex ec mc”

R.2 (28 Oct 2022)

- Updated type code from: RINO LED RL-vvvv-ll-ddd-bbb-ta-xxx-yy-zz-kk-aaa-www-cg-eeee-nnn
  to: RINOLED-EX RL-Z2-aaaa-bb-ccc-ddd-eeee-fff-gg-hh-ii-jjj-kkk-llll-mmmm-nnn

EU TYPE-EXAMINATION CERTIFICATE

1. **EU type-examination Certificate (Module B)**

2. **Equipment or Protective System intended for use in potentially explosive atmospheres (Directive 2014/34/EU)**

3. **EU type examination certificate Nr** **ITS-I 20 ATEX 251402X R.1**

4. **Product:** Led luminaires,
   Models RINOLED-EX RL-Z1-…, RINOLED-EX RL-Z2-….

5. **Manufacturer:** Palazzoli S.p.A.

6. **Address:** Via Federico Palazzoli, 31
   25128 Brescia BS
   Italy

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

8. INTERTEK ITALIA S.p.A., Notified Body n° 2575 in accordance with article 17 of the Directive 2014/34/EU of the European Parliament and Council of the 26 February 2014, certifies that the equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective system intended for use in potentially explosive atmosphere, given in Annex II of the Directive.

   The examination and tests results are recorded in confidential technical evaluation Intertek Report Nr. 200025140UDI-ATXa and Intertek Report Nr 200030241UDI-ATX

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN IEC 60079-0:2018, EN IEC 60079-7:2015/A1:2018 EN 60079-18:2015/A1:2017 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 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:

RINOLED-EX RL-Z1:
II2G Ex eb mb IIC Tx Gb
II2D Ex tb IIIC T85°C Db
RINOLED-EX RL-Z2:
II2D Ex tb IIIC T85°C Db
See table in sec. 13 for ambient temperature range

October 28, 2022

Certificate issue date

Alessandro Savio
Certification Officer
Intertek Italia S.p.A. (NB 2575)

PDR N° 277B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognition Agreements

SCHEDULE

EU TYPE EXAMINATION CERTIFICATE NUMBER: ITS-I 20 ATEX 251402X R.1

13. DESCRIPTION OF THE EQUIPMENT OR PROTECTIVE SYSTEM

The equipment is a Waterproof LED light fixtures with metal body, glass diffuser and electronic Controlgear for LED modules (Driver) and Electronic Controlgear for emergency lighting (Inverter). The body of the enclosure can be made of stainless steel AISI 304, 316L or painted steel.
Temperature class is in accordance with the table below:

Model	Max ambient temperature range [°C]	Temperature class	
		Gas	Dust
RINOLED-EX RL-Z1:			
EXE version with LED driver output current < 400 mA	+35°C or +45°C	T6	T85°C
EXE version with LED driver output current ≥ 400 mA	+35°C or +45°C	T5	T85°C
EXE version with LED driver output current = 500 mA with LED code 192S	+45°C	T4	T85°C
EXN0 version with LED driver output current < 400 mA	+60°C	T6	T85°C
EXN0 version with LED driver output current ≥ 400 mA	+45°C	T5	T85°C
EXN0 version with LED driver output current = 500 mA with LED code 192S	+45°C	T4	T85°C
RINOLED-EX RL-Z2:			
EXE version	+35° or +45°C	T6	T85°C
EXN0 version with LED driver output current < 400 mA	+60°C	T5	T85°C
EXN0 version with LED driver output current ≥ 400 mA	+55°C	T5	T85°C

The type code of product is:

RINOLED-EX RL- Z1-aaaa -bb-ccc-ddd-eeee-ffff-gg-hh-ii-jjj-kkk-llll-mmmm-nnn, where:

digit	Meaning
RINOLED-EX	Commercial product name
RL-Z1-aaaa	Version RL-Z1 where aaaa is: • EXN0: ATEX light fixture - Non-Emergency for Ex Zones 1-21 • EXE1: ATEX light fixture - Emergency 1h for Ex Zones 1-21 • EXE3: ATEX light fixture - Emergency 3h for Ex Zones 1-21
bb	Length: • 69: Length 690 mm • 13: Length 1300 mm
ccc	Diffuser material: • TGL: Transparent Glass

SCHEDULE

EU TYPE EXAMINATION CERTIFICATE NUMBER: ITS-I 20 ATEX 251402X R.1

	• OGL: Opal Glass (Satin finished)
ddd	Body material: • 304: AISI 304 • 316: AISI 316L • PSG: Painted Galvanised Steel
eeee	Ambient temperature: See table below
ffff	Number of LED: • 192P: 2 strip of 96 LEDs in parallel • 192S: 2 strip of 96 LEDs in series • 0384: 4 strip of 96 LEDs (2 strip 192P in series) - (only for Length 1300 mm)
gg	Dimming type: • 00: No dimming • DA: DALI (only for version with 384 LEDs)
hh	Colour rendering index (CRI): • 80: Ra ≥ 80 (typical) • hh: Other values ≠ 80
ii	Colour temperature: • 40: 4000K • ii: Other values between 3000K (ii=30) and 6000K (ii=60)
jjj	LED driver output current: aaa: 325 mA to 600 mA with step of 25 mA
kkk	Optic Type: • 000: No lens (Extra wide beam distribution 110°)
llll	Type of cable gland: • PL20: M20 Plastic cable gland (*) • PL25: M25 Plastic cable gland (*) • BR20: M20 Nickel plated cable gland (*) • BR25: M25 Nickel plated cable gland (*) • AR20: M20 Nickel plated cable gland for armoured cable (*) • AR25: M25 Nickel plated cable gland for armoured cable (*)
mmmm	Number of cable entry: • 1000: 1 entry (Mains) • 1100: 2 entries at Mains side • 1110: 2 entries at Mains side + 1 entry at other side • 1111: 2 entries at Mains side + 2 entries at other side • mmmm: Other combinations of entries
nnn	Custom characteristics: • 000: Standard version • nnn: Code to handle special versions such as pre-mounted supply cable with or without plug/connector, different external colour, etc.

(*) With plastic cable gland, ta min. = -35 °C
With Nickel-plated brass cable gland, ta min= -40°C

SCHEDULE

EU TYPE EXAMINATION CERTIFICATE NUMBER: ITS-I 20 ATEX 251402X R.1

Ambient temperature range table, only for RINOLED-EX RL- Z1

Ambient temperatures ("eeee" field of Z1-EX.. versions)					
Code "eeee"	ta range	Version	Length	N. LED	LED Driver output current (mA)
0035	0 °C … +35 °C	Z1-EXE1	690	192S	325 … 500
		Z1-EXE3	690	192S	325 … 500
0045	0 °C … +45 °C	Z1-EXE1	690	192P	325 … 500
			1300	192S	325 … 500
				0384	325 … 600
		Z1-EXE3	690	192P	325 … 500
			1300	192S	325 … 500
				0384	325 … 600
3535	-35 °C … +35 °C	Z1-EXN0	690	192S	400 … 500
3545	-35 °C … +45 °C	Z1-EXN0	690	192S	325 … 375
			1300	192S	400 … 500
				0384	325 … 600
3550	-35 °C … +50 °C	Z1-EXN0	690	192P	400 … 500
3560	-35 °C … +60 °C	Z1-EXN0	690	192P	325 … 375
			1300	192S	325 … 375
4035	-40 °C … +35 °C	Z1-EXN0	690	192S	400 … 500
4045	-40 °C … +45 °C	Z1-EXN0	690	192S	325 … 375
			1300	192S	400 … 500
				0384	325 … 600
4050	-40 °C … +50 °C	Z1-EXN0	690	192P	400 … 500
4060	-40 °C … +60 °C	Z1-EXN0	690	192P	325 … 375
			1300	192S	325 … 375

RINOLED-EX RL-Z2-aaaa-bb-ccc-ddd-eeee-fff-gg-hh-ii-jjj-kkk-llll-mmmm-nnn, where:

digit	Meaning
RINOLED-EX	Commercial product name
RL-Z2-aaaa	Version RL-Z2 where aaaa is: • EXN0: ATEX light fixture - Non-Emergency for Ex Zones 21 • EXE1: ATEX light fixture - Emergency 1h for Ex Zones 21 • EXE3: ATEX light fixture - Emergency 3h for Ex Zones 21
bb	Length: • 69: Length 690 mm • 13: Length 1300 mm
ccc	Diffuser material: • TGL: Transparent Glass • OGL: Opal Glass (Satin finished)
ddd	Body material: • 304: AISI 304 • 316: AISI 316L • PSG: Painted Galvanised Steel

SCHEDULE

EU TYPE EXAMINATION CERTIFICATE NUMBER: ITS-I 20 ATEX 251402X R.1

eeee	Ambient temperature: See table below
fff	Number of LED: • 048: 1 x 48 LED (only for Length 690 mm) • 072: 1 x 72 LED (only for Length 690 mm) • 096: 2 x 48 LED (only for Length 1300 mm) • 144: 2 x 72 LED (only for Length 1300 mm)
gg	Dimming type: 00: No dimming
hh	Colour rendering index (CRI): • 80: Ra ≥ 80 (typical) • hh: Other values ≠ 80
ii	Colour temperature: • 40: 4000K • Other values between 3000 K (ii = 30) to 6500 K (ii = 65)
jjj	LED driver output current: • jjj: 325 mA to 500 mA with step of 25 mA
kkk	Optic Type: • 000: No lens (Extra wide beam distribution 110°) • WBC: Wide beam comfort distribution (88°) • MBD: Medium beam distribution (60°) • NBD: Narrow beam distribution (30° x 90°) • Three digit to identify the other type of optic
llll	Type of cable gland: • PL20: M20 Plastic cable gland (*) • PL25: M25 Plastic cable gland (*) • BR20: M20 Nickel plated cable gland (*) • BR25: M25 Nickel plated cable gland (*) • AR20: M20 Nickel plated cable gland for armoured cable (*) • AR25: M25 Nickel plated cable gland for armoured cable (*)
mmmm	Number of cable entry: • 1000: 1 entry (Mains) • 1100: 2 entries at Mains side • 1110: 2 entries at Mains side + 1 entry at other side • 1111: 2 entries at Mains side + 2 entries at other side • mmmm: Other combinations of entries
nnn	Custom characteristics: • 000: Standard version • nnn: Code to handle special versions such as pre-mounted supply cable with or without plug/connector, different external colour, etc.

(*) With plastic cable gland, ta min. = -35 °C
With Nickel-plated brass cable gland, ta min= -40°C

SCHEDULE

EU TYPE EXAMINATION CERTIFICATE NUMBER: ITS-I 20 ATEX 251402X R.1

Ambient temperature range table, only for RINOLED-EX RL- Z2 is

Ambient temperatures ("eeee" field of Z2-EX.. versions)					
Code "eeee"	ta range	Version	Length	N. LED	LED Driver output current (mA)
0045	0 °C … +45 °C	Z2-EXE1	690	All	325 … 500
			1300		
		Z2-EXE3	690		
			1300		
3555	-35 °C … +55 °C	Z2-EXN0	690	All	425 … 500
			1300		
3560	-35 °C … +60 °C	Z2-EXN0	690	All	325 … 400
			1300		
4055	-40 °C … +55 °C	Z2-EXN0	690	All	425 … 500
			1300		
4060	-40 °C … +60 °C	Z2-EXN0	690	All	325 … 400
			1300		

CE Marking shall be accompanied by the identification number of the Notified Body responsible for surveillance of production.

14. DRAWINGS AND DOCUMENTS

TITLE	DOCUMENT Nr	LEVEL	DATE
* Technical File Waterproof light fixtures RINOLED-EX series Type of protection Ex eb mb IIC / Ex tb IIIC - Ex ec mc IIC / Ex tb IIIC	Doc. N. 423	01	2022-08-25
*ATEX LIGHTING LED FIXTURES for fixed installation – Safety instructions Series RINO LED-EX	C010268	00	2022-08-10
*ATEX LIGHTING LED FIXTURES for fixed installation – Safety instructions Series RINO LED-EX	C010269	01	2022-08-10
* Cover page of Annex 01 (Datasheets) of the Technical File	Annex 01TF Doc. N. 423	01	2022-09-08
* Annex 04 of Technical File - Explanation of the markings	Annex 04TF Doc. N. 423	01	2022-08-10
* Cover page of Annex 02 of Technical File Materials Technical Datasheets	Annex 02TF Doc. N. 423	01	2022-08-10
* Cover page of Annex 03 of Technical File Drawings and schemes	Annex 03TF Doc. N. 423	01	2022-08-25
Istruzione fissaggio guarnizioni sul corpo plafoniera inox standard e atex	N° 137	02	24-06-2015
Definizione spessore del rivestimento superficiale, tipologia di vernice a polvere, caratteristiche di adesione e resistenza, pretrattamento.	N° 104	7	03/04/2019

SCHEDULE

EU TYPE EXAMINATION CERTIFICATE NUMBER: ITS-I 20 ATEX 251402X R.1

TITLE	DOCUMENT Nr	LEVEL	DATE
* SPECIFICA TECNICA Istruzione di montaggio e prove di routine Modulo LED per plafoniere RINOLED-EX 2G2D (Zone 1-21)	N. 174	00	2022-08-01

Copies of the above listed documents are kept at Intertek Italia S.p.A. archive.

15. **SPECIFIC CONDITIONS OF USE**

- See user manual to minimize the risk of electrostatic charge

16. **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS**

The relevant Essential Health and Safety Requirements have been identified and assessed in Intertek Report Nr. 200030241UDI-ATX Revision 0 dated 20.Oct.2022

17. **ROUTINE (FACTORY) TESTS**

- Dielectric test was performed in accordance with IEC 60598-1 - Luminaires - Part 1: General requirements and tests at 1000V+2U per 60s. In accordance with this Standard the routine test can be performed at this condition:
  a) 1000V+2U per 60s; or
  b) 1.2*(1000V+2U) per 100ms.

  Alternatively the manufacturer shall conduct the test at 1.2 times the test voltage for at least 100ms. Results must be recorded.
- The manufacturer must conduct a visual inspection on each encapsulated led strip unit for led luminaires Z1-Ex model. No damage shall be evident, such as cracks in the compound, exposure of the encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure of adhesion (separation of any adhered parts) or softening.
- Dielectric strength test shall be performed on each encapsulated led strip unit for led luminaires Z1-Ex model at these condition:
  c) 1600Vac for 1s; or
  d) 2000Vdc for 1s; or
  e) 1920Vac for 100ms; or
  f) 2400Vdc for 100ms.

  Test shall be performed between each circuit and surface of the compound.
  The test voltage shall be increase steadily within a period of not less than 10s until it reaches the prescribed value.
  Results must be recorded.

18. **DETAIL OF CERTIFICATE CHANGES**

R.1 (28 Oct 2022)

- Updated type code from: RINO LED RL-vvvv-ll-ddd-bbb-ta-xxx-yy-zz-kk-aaa-www-cg-eeee-nnn
  to: RINOLED-EX RL-Z2-aaaa-bb-ccc-ddd-eeee-fff-gg-hh-ii-jjj-kkk-llll-mmmm-nnn
- Add model RINOLED-EX RL- Z1