2-in-1 EXIT BOX

Data Sheet

For Series: OT-ES9921

OTC IND CO., LTD
TEL: 0086-575-82913009| Website: www.otcenterprise.com | Email: info@otcind.net

RoHS

INNOVATING YOUR PROJECTS

Dear partners,
* Thanks for Choosing OTC LED energency products for your projects.

OTC always pursue high quality, steady quality products, competitive price and one-stop customer service, and offer enjoyable installation experience.

* All the OTC emergency lamp with 5 years quality guarantee (Battery 3 years) . If any doubts/ questions, please contact OTC project support team directly by email support@otcind.net . You will get solutions in 7~24 hours rapidly.
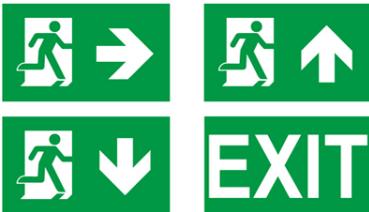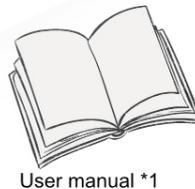
Contents

1 Security related information

• Installation should be carried out in accordance with the latest edition of the I.E.E. Wiring regulations and taking into consideration the latest building regulations.

• Ensure that all electrical connections are tight with no loose strands, including factory made connections.

• Ensure there is adequate free air circulation of at least 100mm around the luminaire. It is the installer's responsibility to consider fire risk and take appropriate precautions.

•A seperate enclosure may be required if this unit is to be used in dusty and wet environments.

Q.C. date label, installation in an improper working environment or installation not according to the current edition of the I.E.E. Wiring Regulations . The guarantee is also invalidated if the luminaire has been I.R. tested. Should this product fail during the guarantee period it will be replaced free of charge, subject to correct installation and return of the faulty unit. We do not accept responsibility for any installation costs associated with the replacement of this product.Your statutory rights are not affected. We reserve the right to alter specifications without prior notice.
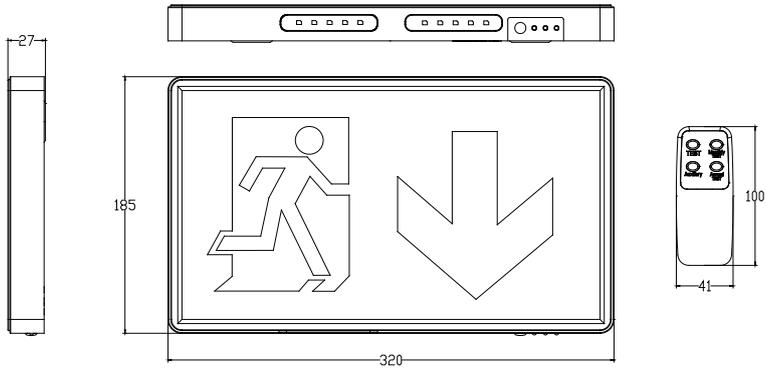
2 Packing list

Installation pack *1

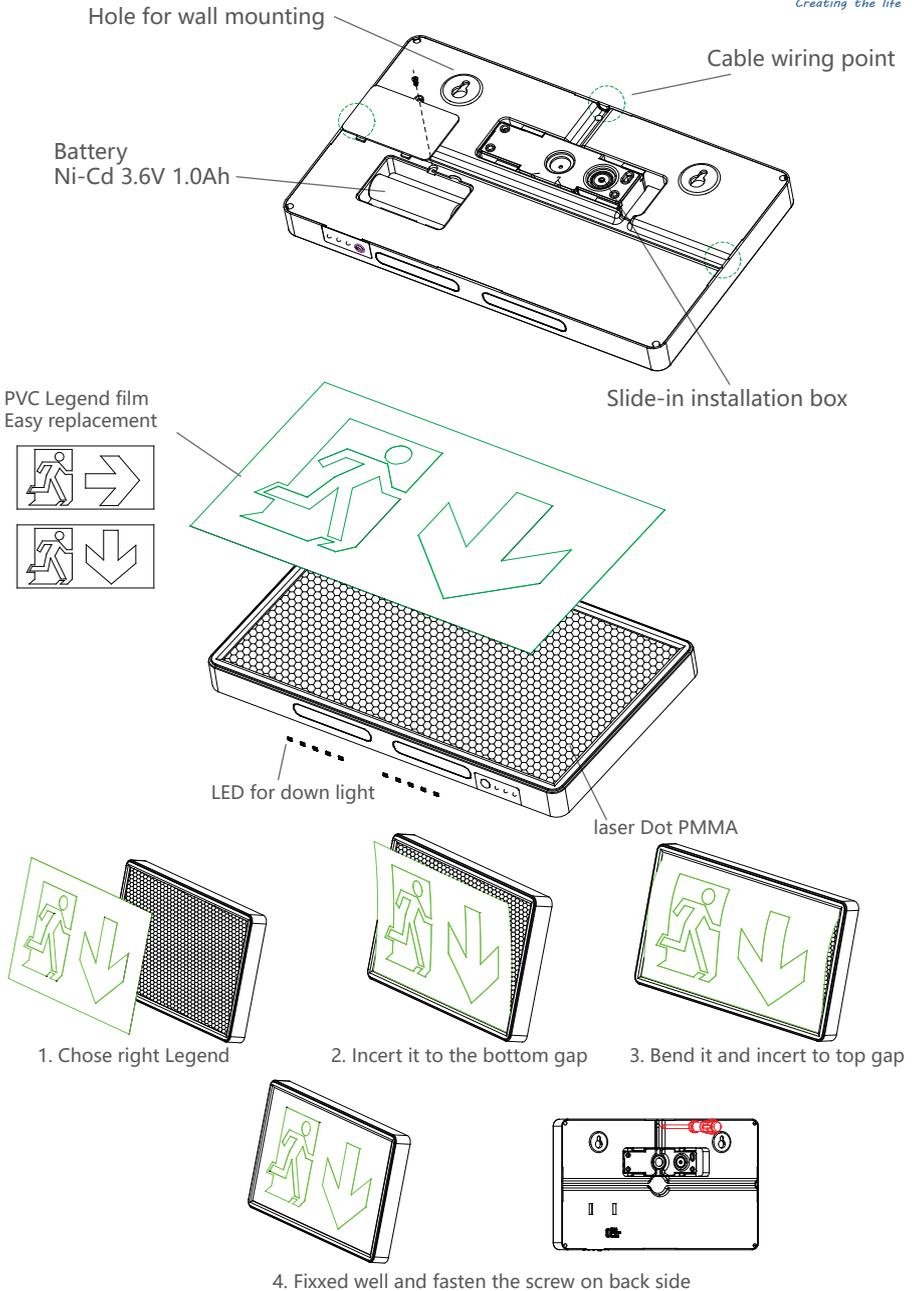The pictogram ← → ↑ ↓ "EXIT"

User manual *1

Remote cotroller *1
(Only remote test version)

Model	Art Nr. OT- ES9921- **		
	SD	ST	RST
Material	Polycatbonate case		
Dimension	320*185*27mm		
LED Chips for exit legend	50 pcs SMD 3014 Chip		
LED Chips for Anti- Panic	10 pcs SMD 2835		
Color Rendering Index	>80		
Degree of protection	IP20		
Input Voltage	AC200- 240V 50/60HZ		
Input power	3.0W		
Down light beam angle	120°		
Power factor	>0.5		
LED lifespan	50,000 hrs		
↓ Next are Emergency parameters ↓			
EM mode	Non- maintained & maintained		
Standard	60598 - 2- 22:2014		
Luminous Flux (The Safety Sign)	70LM/ Green		
Luminous Flux (The Anti- panic light)	40LM/ White		
Emergency Pack	3.6V 1.0Ah 3* AA Ni- Cd pack		
Emergency time	3 Hours		
Emergency change over	<0.5S		
Test	Manual	Manual + Self test	Manual + Self + Remote test
Charging indicator	NO	Green	Green
Faulty indicator	NO	RED	RED

- 3 -

Hole for wall mounting

Cable wiring point

Battery
Ni-Cd 3.6V 1.0Ah

PVC Legend film
Easy replacement

Slide-in installation box

LED for down light

laser Dot PMMA

1. Chose right Legend

2. Incert it to the bottom gap

3. Bend it and incert to top gap

4. Fixxed well and fasten the screw on back side

INNOVATING YOUR PROJECTS

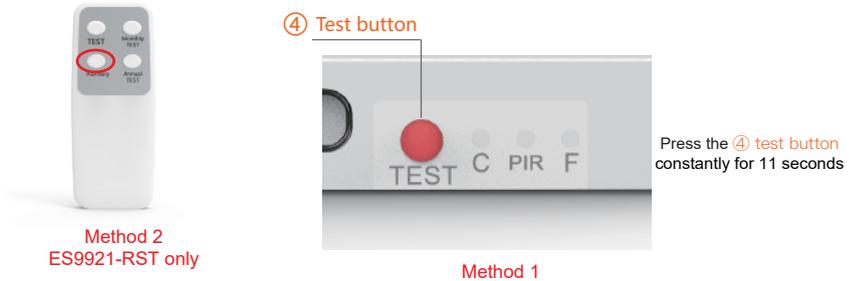**- 4 -**

5 Maintained & non-maintained changeover

5.1 Maintained & non-maintained mode changeover (ST & RST only)

a) The OT-ES9921ST/RST was preset Maintained mode.

④ Test button

Press the ④ test button
constantly for 11 seconds

TEST C PIR F

Method 2
ES9921-RST only

Method 1

b) AC power on
Method 1: Press the ④ test button   constantly for 11 seconds
Method 2: Press the "Auxiliary" switch on remote test controller
for 6 seconds (ES9921-RST only).

The OT-ES9921 will change the Emergency work mode.

6.1 Testing (If no failure)

6.1.1. Manual function test.
　　　ES9921ST: Active the ④ test button.
　　　ES9921RST:Press "TEST" switch on controller.

　a) The ② Charging indicator OFF.
　b) The Emergency function ON.
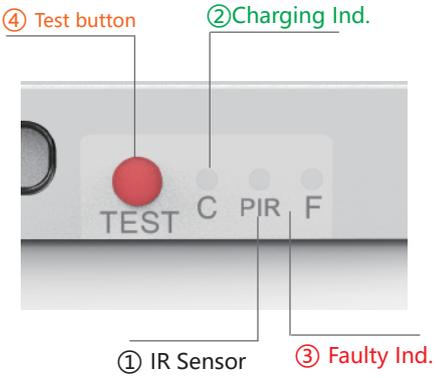　c) The test will cut off the mains

6.1.2 Monthly test.
　　　ES9921ST: Active the ④ test button for 5 second;
　　　ES9921RST: Press the "Monthly TEST" switch on controller;
　　　or the lamp installed every 30 days.

　a) The ② Charging indicator will flash in 1HZ for 128s;
　b) The Emergency function ON;
　c) The test finished and back to standby mode.

6.1.3 Annual test.
　　　ES9921ST: Active the ④ test button for 7 second;
　　　ES9921RST: Press the "Annual TEST switch on controller;
　　　or the lamp installed every 180 days.

a) The ② Charging indicator will flash in 2HZ for 3hours;
b) The charging will be cut off & emergency function ON 3hours;
c) The lamp back to standby mode after test.

④ Test button　　②Charging Ind.

① IR Sensor　　③ Faulty Ind.

Remote test controller
OT-ES8821RST only

6.2 Testing (If any failure)

5.2.1 Battery failure: ⬤ ⬤ ⬤ ⬤ ⬤
Monitored constantly. The ③ faulty indicator will flash in 1 Hz if the battery failure any time.

5.2.2 LED load failure: ⬤ ⬤ ⬤ ⬤ ⬤ ⬤ ⬤ ⬤ ⬤ ⬤
If press test button, or the luminary self–monthly test. The ③ faulty indicator will flash in 2 Hz if LED load failure.

5.2.3 Duration failure: ▬▬▬▬▬▬▬▬▬▬▬
Only in Annual self–test. The ③ faulty indicator will turn on constantly if the Battery can not last 3 hours

7 Emergency control logic

The emergency function control logic

Operation	Charging indicator (Green)		Faulty Indicator (RED)		Emergency LED In Maintained mode		Emergency LED Non-Maintained mode	
Time line	1 Second	1 Second	1 Second	1 Second	1 Second	1 Second	1 Second	1 Second
Normal charging	Constantly on		OFF		Constantly on		OFF	
Normal AC Failure	OFF		OFF		Constantly on		Constantly on	
Manual test	OFF		OFF		Constantly on		Constantly on	
Monthly self-test	🟢	🟢	OFF		Constantly on		Constantly on	
Annual self-test	🟢 🟢	🟢 🟢	OFF		Constantly on		Constantly on	
Battery circuit failure	OFF		🔴	🔴	Constantly on		OFF	
Light source failure	Constantly on		🔴 🔴	🔴 🔴	OFF		OFF	
Duration test failure	Constantly on		Constantly on		Constantly on		OFF	

Before   **After**

No Key switch, No Harry, No ladders
Safe / Easy / Convenient

ADDITIONAL INFORMATION -
COMPONENT REPLACEMENT

• The luminaire contains no user replaceable components other than the battery pack contained in emergency versions.

• The battery has a 4 year service life provided it is operatedand & maintained by regular testing, as detailed in this Usermanual. Failure to maintain or change the battery may result in reduced duration in emergency mode.
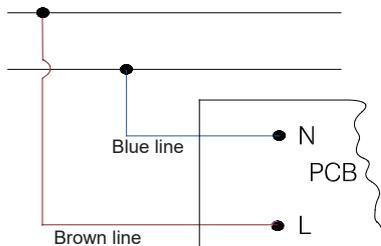
Emergency function test before installation

8.1.1. Wiring & Connect the AC cable according to the Dia 1.

-- The charging indicator on,
-- The Faulty indicator off,

8.1.2. Press the test button, The charging indicator off, and emergency function actved.

8.1.3. Cut off the AC power supply, The mains indictor & Charging indicator off and emergency functon on.

Dia 1
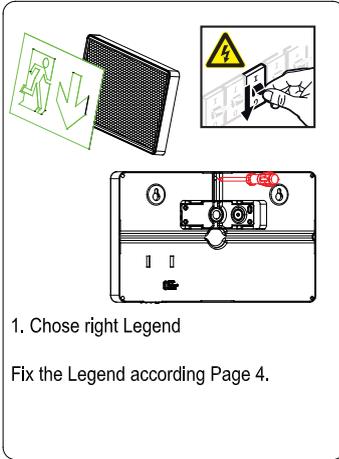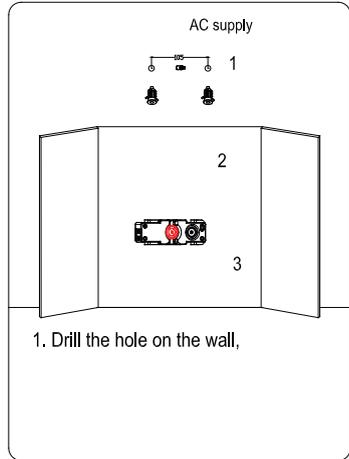
OTC
Original technology
Creating the life

Caution

1. All OTC emergency lights are designed for projects. Only qualified electrician can install or maintain it.
2. The mains have to be off during the installation or maintenance.
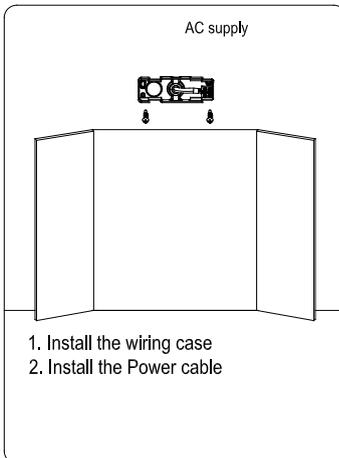3. Keep the product far from heat sources and in a well ventilated area.

1. Chose right Legend

Fix the Legend according Page 4.
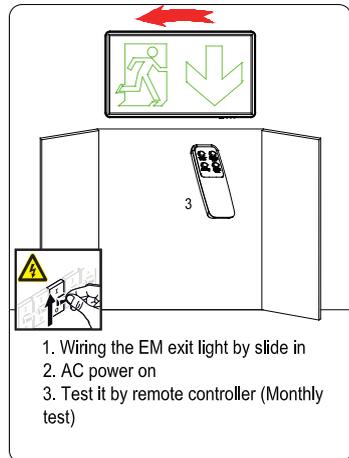
STEP 1

AC supply

1

2

3

1. Drill the hole on the wall,

STEP 2

AC supply

1. Install the wiring case
2. Install the Power cable

STEP 3

3

1. Wiring the EM exit light by slide in
2. AC power on
3. Test it by remote controller (Monthly test)

STEP 4

INNOVATING YOUR PROJECTS

Luminaire emergency inspection record

month	Test	First Year		Second Year		Third Year		Fourth Year		Fifth Year	
		Signed	Date	Signed	Date	Signed	Date	Signed	Date	Signed	Date
1	Functional										
2	Functional										
3	Functional										
4	Functional										
5	Functional										
6	1 hour										
7	Functional										
8	Functional										
9	Functional										
10	Functional										
11	Functional										
12	3 hours										

Installed By: ....

Luminaire Locaton: ....

Installed Date: ....

Contact details: ....

Luminaire NO.: ....

INNOVATING YOUR PROJECTS

Scan for video instruction
https://youtu.be/cIHDPfHE5nU

Designed by OTC Project team
Made in China