4-in-1 Evacuation sign

Data Sheet

For Series: OT-ES809

Original technology
Creating the life

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.
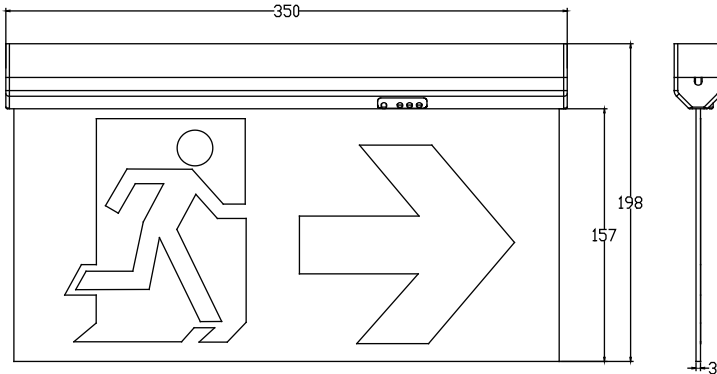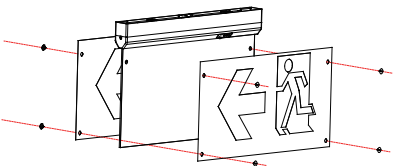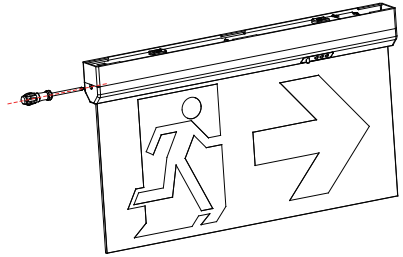
2 Packing list

The Sign

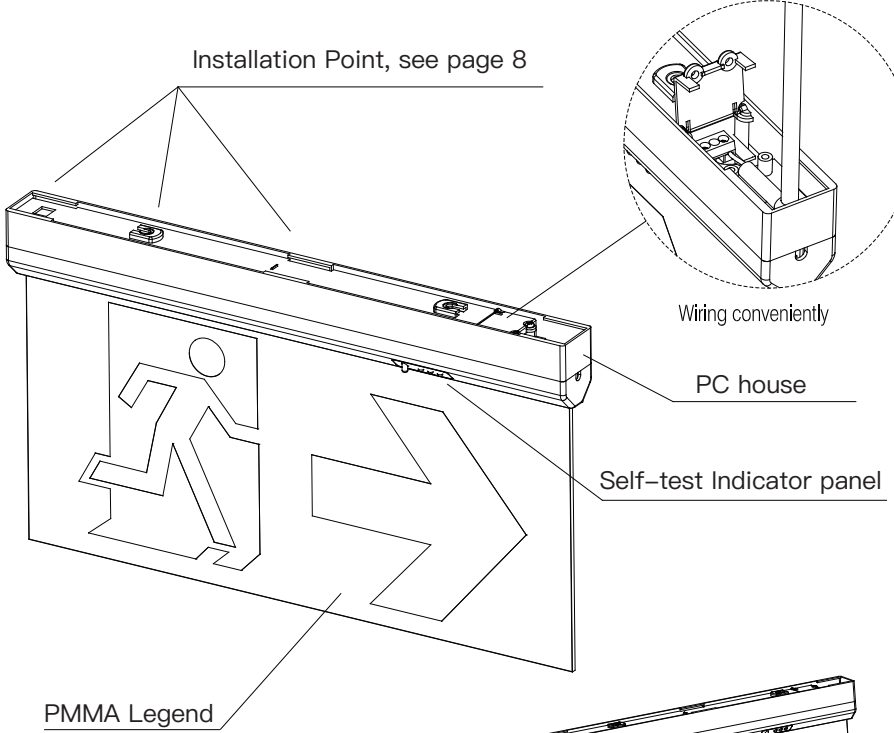Installation Pack

Usermanual

Model	Art Nr. OT–ES809		
	ES809	ES809ST	ES809RST
Material	polycarbonate + PMMA		
LED Chips	9 pcs F546 bulb, White color		
Color Rendering Index	>80		
Degree of protection	IP20		
Input Voltage	AC200–240V 50/60HZ		
Input power	1.5W		
Power factor	>0.5		
Emergency change over	<0.5S		
LED lifespan	50,000 hrs		
Standard	60598–2–22:2014		
Emergency Pack	3.6V 0.6Ah		
Emergency time	3 Hours		
Test	Manual Test	Self–test	Remote self test
Mains indicator	NO	RED	
Charging indicator	Green		
Faulty indicator	NO	RED	
Luminous Flux(Mains)	40LM		
Luminous Flux(EM)	40LM		

350

198

157

3

Installation Point, see page 8

Wiring conveniently

PC house

Self-test Indicator panel

PMMA Legend

Replace the legend by Clips
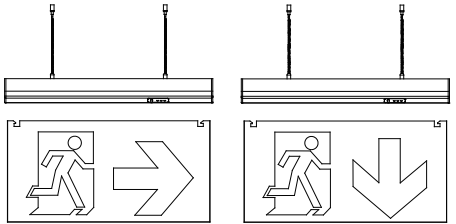
Replace the legend by small screw driver

INNOVATING YOUR PROJECTS

5.1 Testing (If no failure)

5.1.1. Manual function test.
ES809ST: Active the ④ test button.
ES809RST:Press "TEST" switch on controller.

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

5.1.2 Monthly test.
ES809ST: Active the ④ test button for 5 second;
ES809RST: 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.

5.1.3 Annual test.
ES809ST: Active the ④ test button for 7 second;
ES809RST: 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 Mains Ind.   ③ Faulty Ind.
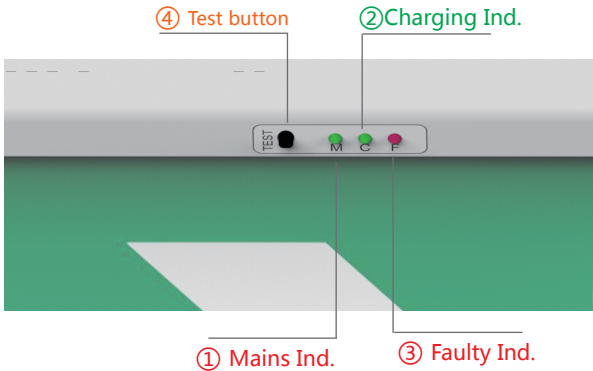
Remote test controller
OT-ES809RST only

5.2 Testing（If any failure）

5.2.1 Battery failure:
Monitored constantly. The ③ faulty indicator will falsh 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 falsh 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

6 Emergency control logic

The emergency function control logic

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

Before   **After**

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

7 Emergency function & Wiring

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

1. Connect the AC cable according to the Dia 1.

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

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

3. Cut off the AC power supply, The mains indictor & Charging indicator off and emergency functon on.
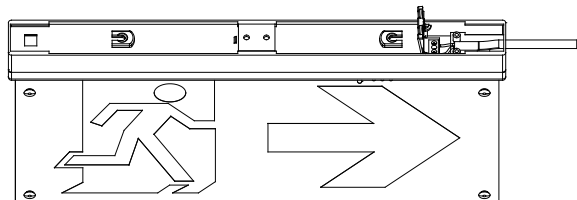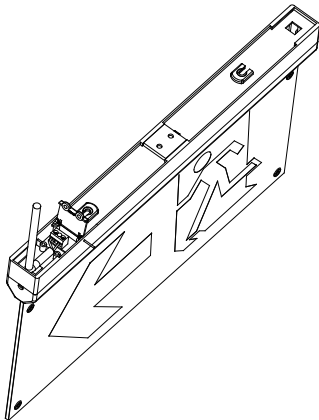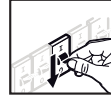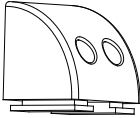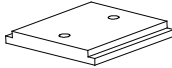
Dia 1

8 Installation guide

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.
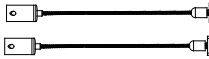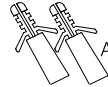3. Keep the product far from heat sources and in a well ventilated area.

Installation pack

The Wall mouting Accessory
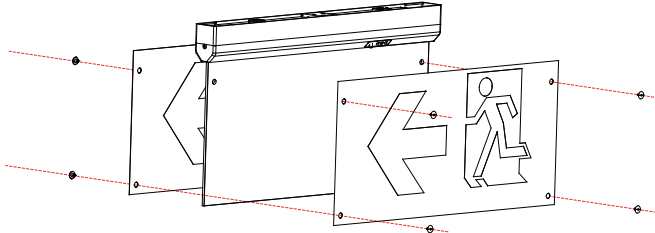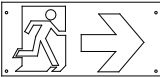
Ceiling mouting Accessory

Hunging mouting Accessory *2
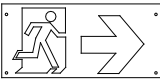
Alligator Anchor*2
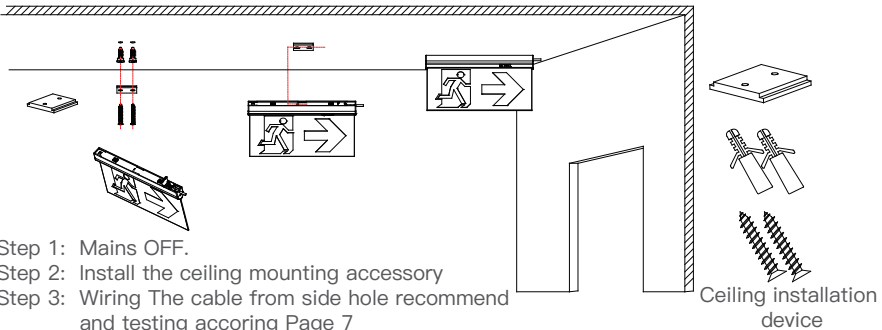
4*30 Screws * 2

Install the PVC Legend

1) Chose the right PVC legend.
2) Install the legend by clips.

Installation 1: Ceiling mounting

Step 1: Mains OFF.
Step 2: Install the ceiling mounting accessory
Step 3: Wiring The cable from side hole recommend and testing accoring Page 7
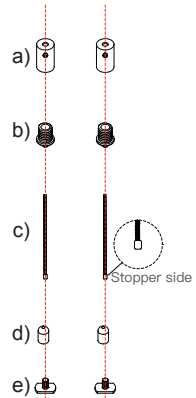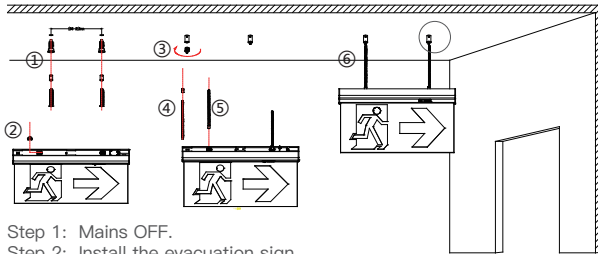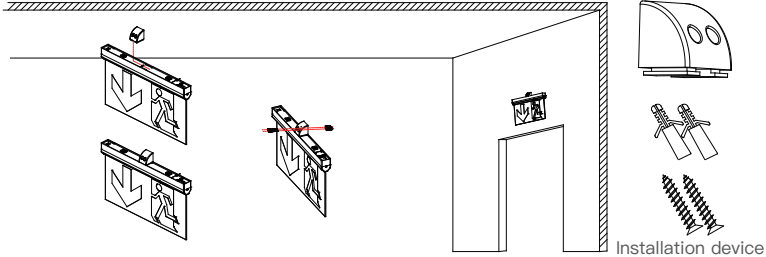Step 4: Fix the sign on the ceiling
Step 5: Mains ON

Ceiling installation device

INNOVATING YOUR PROJECTS

Installation 2: Side wall mounting

Installation device
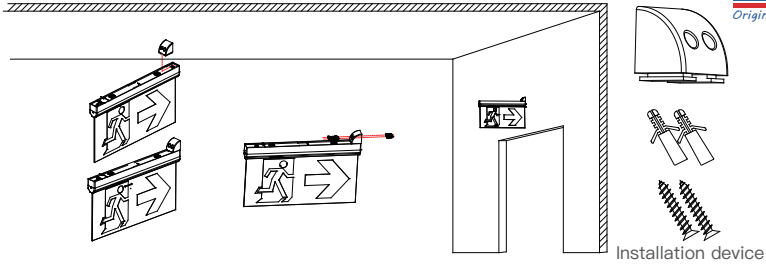
Step 1: Mains OFF.
Step 2: Install the wall mounting accessory
Step 3: Fix the sign on the wall
Step 4: Wiring and testing accoring Page 7
Step 5: Mains ON

Installation 3: Wall mounting

Installation device

Step 1: Mains OFF.
Step 2: Install the evacuation sign
  ① Install the a) by screws, distance 180–200mm recommend.
  ② Install e) into the base of sign.
  ③ Install b) into a) by screwing.
  ④ Incert the c) string into d) from no stopper side.
  ⑤ Install c)+d) on to e) according the drawing by screwing.
  ⑥ Incert the string into b) set the length accroding Pic8.1.

Step 3: Wiring and testing accoring Page 7
Step 4: Mains ON

a)
b)
c) Stopper side
d)
e)

Pic8.1

Hunging installation device

- 9 -
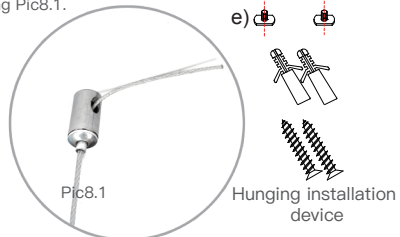
Luminaire emergency inspection record

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

CE

RoHS

Designed by OTC Project team
Made in China