

4-in-1 Evacuation sign

Data Sheet

For Series: OT-ES809-Li



Scan for video link
<https://youtu.be/ZbFhXgYXyNc>



Scan for IEC60598-2-22:2021
http://btcind.net/download/iec60598_2_22_2021.pdf



OTC IND CO., LTD

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Dear partners,

* Thanks for Choosing OTC LED emergency 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.

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

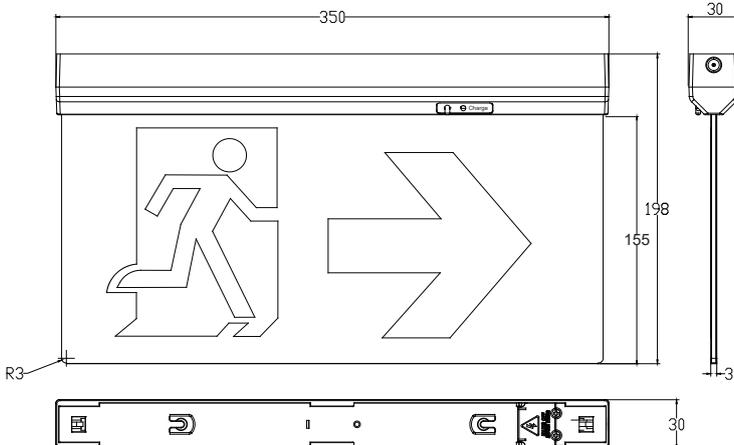
Q.C. date label, installation in an improper working environment or installation not according to the current edition of the I.E.E. Wiring Regulations . The guarantee is also invalidated if the luminaire has been I.R. tested. Should this product fail during the guarantee period it will be replaced free 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



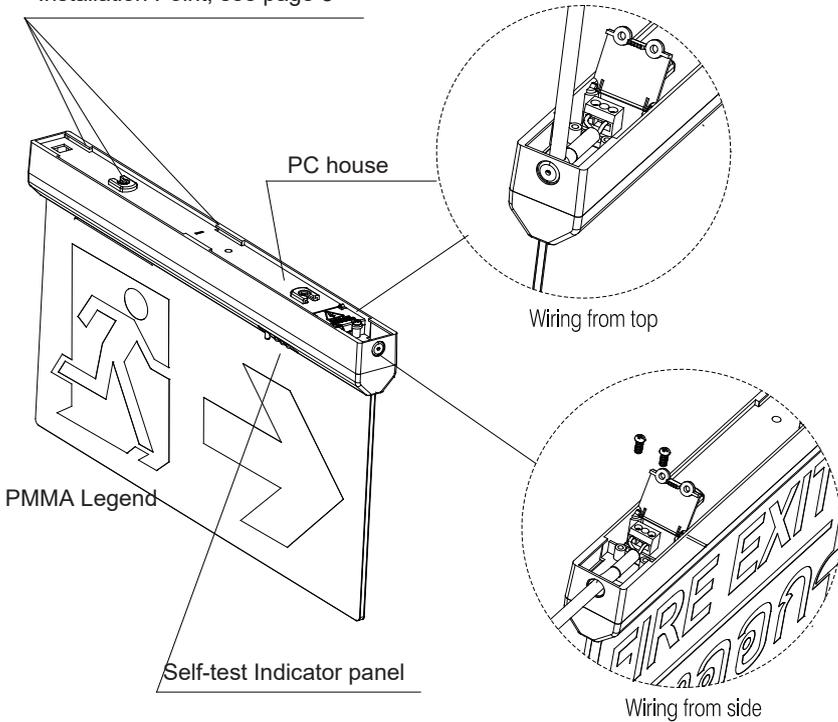
3 Basic Parameters

Model	Art Nr. OT- ES809- Li ES809
Material	polycarbonate + PMMA
LED Chips	20 pcs SMD4014 chips
Degree of protection	IP20
Input Voltage	AC200- 240V 50/60HZ
Input power	2.5W
Power factor	>0.5
Emergency change over	<0.5S
Emergency mode	Maintained only
LED lifespan	50,000 hrs
Guarantee	5 years (Battery 2 years)
Emergency Standard	60598 - 2- 22:2021
Legend standard	ISO 7010:2019
The Photonic	ISO 3864 - 4:2011 / EN 1838 - 2013
Emergency Pack	3.7V 2.0Ah Li(CoNiMn)O2 Or 3.2V 1.6Ah LiFePO4
Emergency time	3 Hours
Test	Manual test
Mains indicator	NO
Charging indicator	Green
Faulty indicator	NO
Charging details	300mA, Full charged in 12 hours
Luminous Flux(Mains)	100LM
Luminous Flux(EM)	100LM



4 General construction

Installation Point, see page 8



4# . Rest mode & storage

4#.1 This luminaire combined rest mode.

When the AC supply failure / cut down. The EM LED on.

- If the battery over discharged, The luminaire will changeover rest mode automatically.
- You can click the ④ test button. and the luminaire also can changeove rest mode.

4#.2 Storage & transportation

- Make sure the luminaire in rest mode
- Keep the storage temperature 0~30°C
- Keep away from inflammables; keep dry & ventilation.

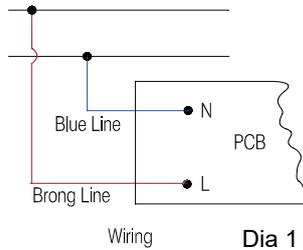
5 Emergency function & Wiring

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 operated and 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. Chose the cable wiring way according page 4.
Connect the AC cable according to the Dia 1.
- The charging indicator on,
2. Press the test button, The charging indicator off, and emergency function activated.
 3. Cut off the AC power supply, The charging indicator off and emergency function on.



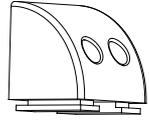
6 Installation guide



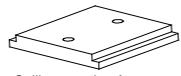
1. All OTC emergency lights are designed for projects. Only qualified electrician can install or maintain it.
2. The mains have to be off during the installation or maintenance.
3. Keep the product far from heat sources and in a well ventilated area.



Installation pack



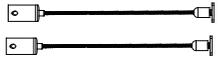
The Wall mounting Accessory



Ceiling mounting Accessory



Alligator Anchor*2

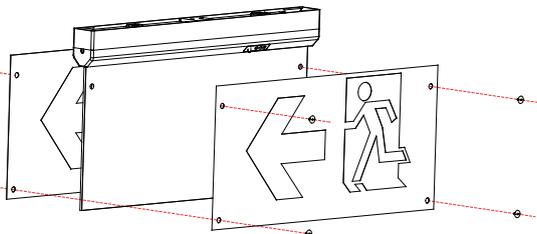
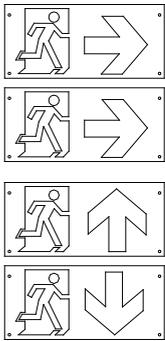


Hanging mounting Accessory *2



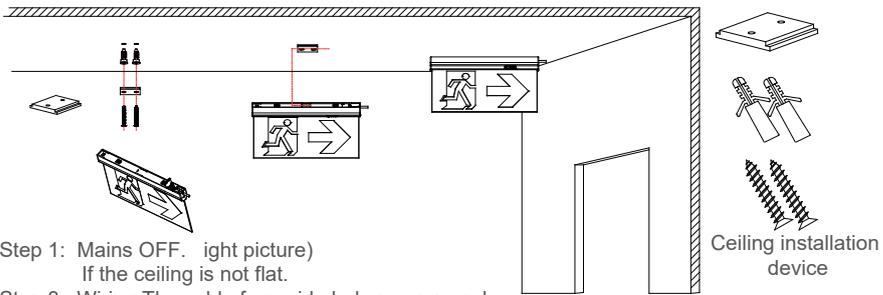
4*30 Screws * 2

Install the PVC Legend



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

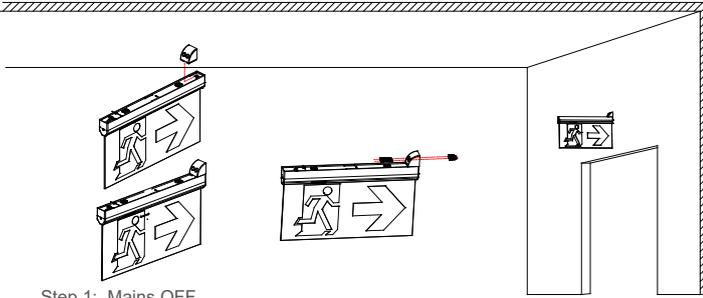
Installation 1: Ceiling mounting



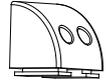
- Step 1: Mains OFF. (right picture)
If the ceiling is not flat.
- Step 3: Wiring The cable from side hole recommend and testing accoring Page 7
- Step 4: Fix the sign on the ceiling
- Step 5: Mains ON

INNOVATING YOUR PROJECTS

Installation 2: Side wall mounting

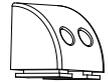
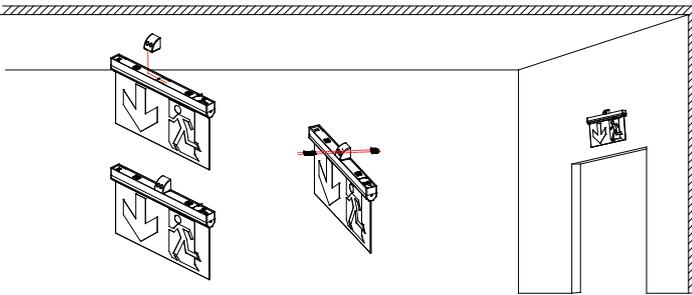


- Step 1: Mains OFF.
- Step 2: Install the wall mounting accessory
- Step 3: Fix the sign on the wall
- Step 4: Wiring and testing accoring Page 7
- Step 5: Mains ON



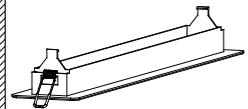
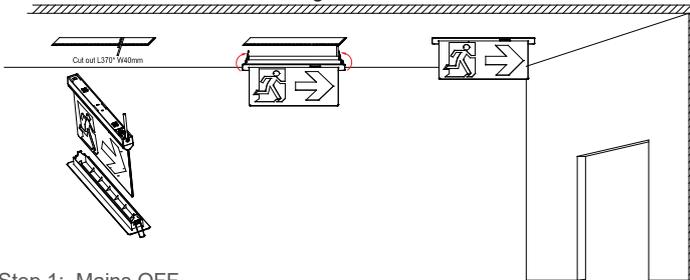
Installation device

Installation 3: Wall mounting



Installation device

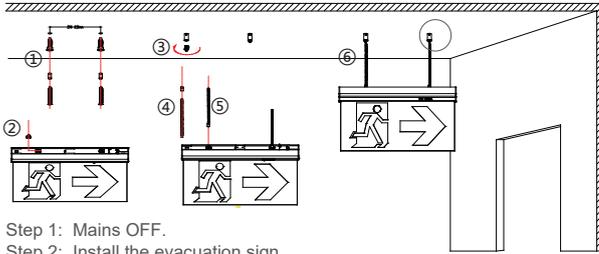
Installation 4: Recessed mounting



Recessed installation device
(Not included)

- Step 1: Mains OFF.
- Step 2: Cut the square hole on Ceiling.
- Step 3: Fix the Exit light into the Ceiling accessory
- Step 4: Install the Exit light.
- Step 5: Mains ON

Installation 5: Hanging



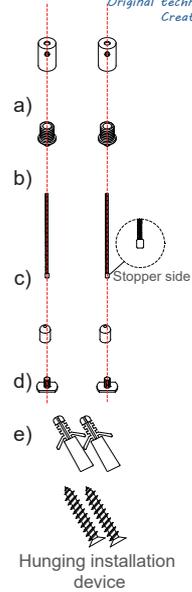
Step 1: Mains OFF.

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 Inert the c) string into d) from no stopper side.
- ⑤ Install c)+d) on to e) according the drawing by screwing.
- ⑥ Inert the string into b) set the length accroding Pic8.1.

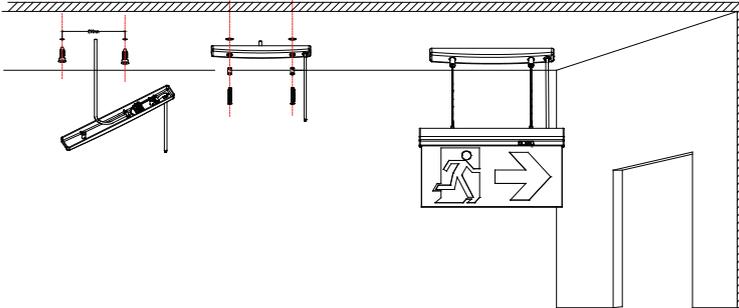
Step 3: Wiring and testing accoring Page 7

Step 4: Mains ON



Pic8.1

Installation 5: Hanging with canopy



Step 1: Mains OFF.

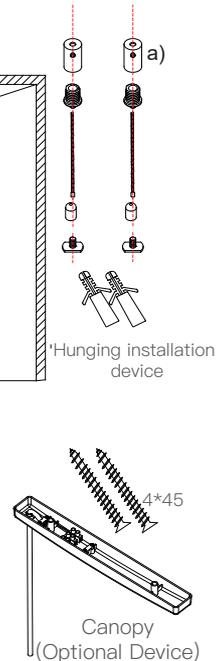
Step 2: Connect the power cable to canopy.

Step 3: Fix the canopy together with a) of haning accessory to the ceiling by 4*45mm screws

Step 4: Install the ES809 same as ↑ Installation 5 ↑.

Step 5: Wiring and test accoring page 7

Step 6: Mains ON



7 EM inspection record table

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 NO.:

Installed Date: Contact details:

Luminaire Locaton: Contact details:

8 Cheap solutions DIY



WARNING

1. All OTC emergency lights are designed according to 60598-1 and 60598-2-22:2014 strictly. There is no trouble if you chose OTC products to bid projects, including project acceptance, monthly, annual inspections.

2. If you just need sell them online or install in your home & there is no professional project acceptance inspection, you can chose some cheaper solutions.

NO.	DIY Items	OTC default Solutions	Cheaper solutions	Dis-advantages
1	MOQ	No MOQ, 1pcs available	1000Pcs	
2	Material of house	PC Plastic	ABS	Not fire resist
3	VOID			
4	EM driver	Isolated	CBB solution	Can not IEC61347-2-7 compliant
5	Lumen output	Constant brightness	Bright at beginning Waker by the end	Can not IEC60598-2-22:2014, 22.17.1 compliant
6	Duration time	180mins	90mins or others	According local fire department requests
7	Installation pack	Installation pack in Page2	Only required installation facilities	Not recommend if sell online.

OTC only guarantee the EM function of luminaire if DIY !

Please check the requests/standards with local fire department before making decision.

