Led Panel Emergency Kit

Data Sheet

For Series: OT-EPD-1ST series

OTC IND CO., LTD

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.
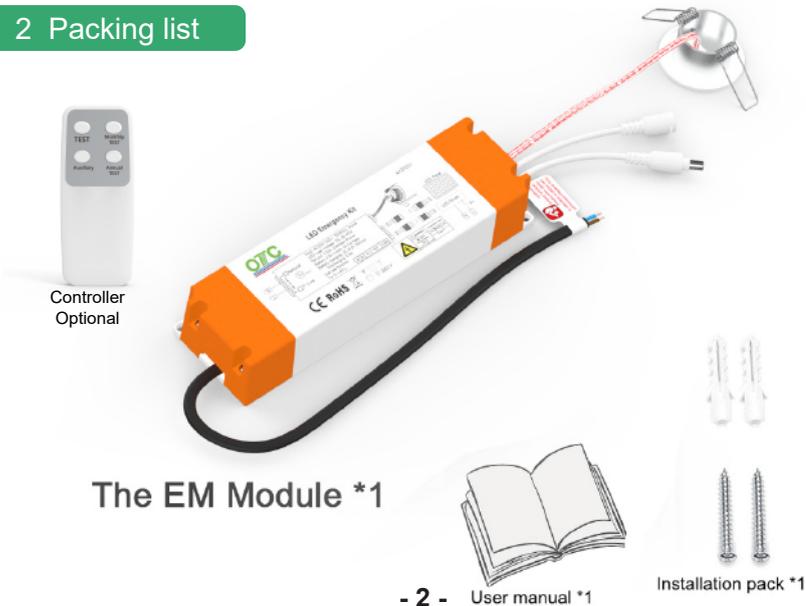
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1 Security related information

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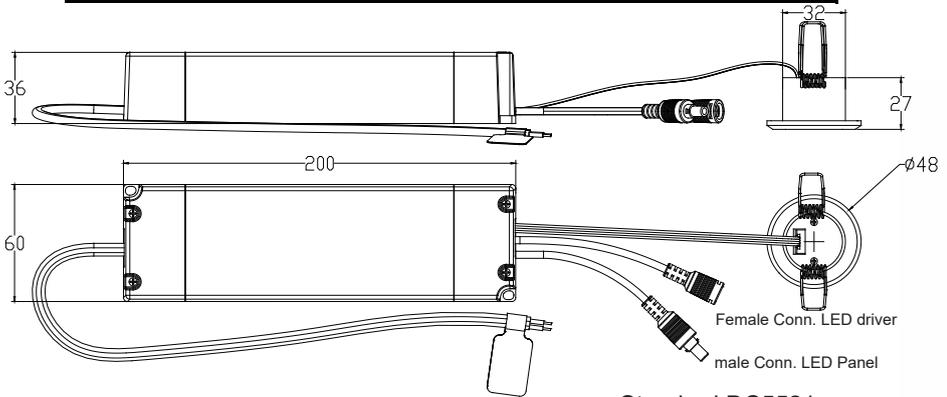
Q.C. date label, installation in an improper working environment or installation not according to the current edition of the I.E.E. Wiring Regulations . The guarantee is also invalidated if the luminaire has been I.R. tested. Should this product fail during the guarantee period it will be replaced free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

Controller
Optional

The EM Module *1

User manual *1

Installation pack *1

Model	Art Nr. OT–EPD–***	
	1NST	1NRST
Material	Polycarbonate	
Dimension of driver	200*60*27	
Dimension of Test/IND	D48*25mm	
Cut out of Test/IND	35mm	
Degree of protection	IP20	
Input Voltage	AC200–240V 50/60HZ	
Input power	3W	
Power factor	>0.5	
Extension cable	DC5521 with clip, 1 set	
↓ Next are Emergency parameters ↓		
EM mode	Non –maintained	
Standard	60598–2–22:2021	
Out put	DC30–60V	
Emergency change over	<0.5S	
Emergency Pack	4.8V 3Ah 4*C Ni–Cd pack	
Emergency time	3 Hours	
Test	Manual + self test	Manual +Self + remote test
Charging indicator	Green	
Faulty indicator	RED	
EM power	3W Constantly Power	
Luminous Flux(EM)	300LM	

36

32

27

200

60

Ø48

Female Conn. LED driver

male Conn. LED Panel

Standard DC5521
plug with clip

4.1 Testing (If no failure)

4.1.1. Manual function test.
EPD01−ST/EPD01−RST: Active the ④ test button.
EPD01−RST: Press "TEST" switch on controller.

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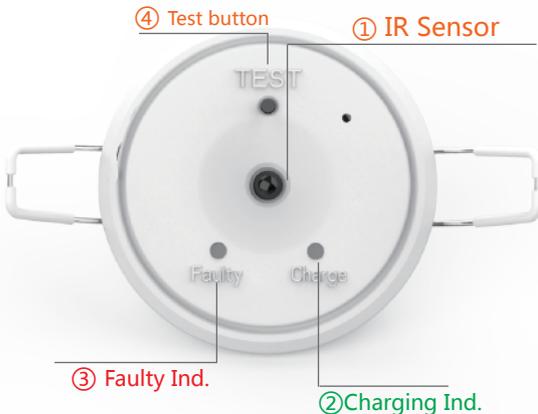c) The test will cut off the mains

4.1.2 Monthly test.
EPD01−ST/EPD01−RST: Active the ④ test button for 5 second;
EPD01−RST: 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.

4.1.3 Annual test.
EPD01−ST/EPD01−RST: Active the ④ test button for 7 second;
EPD01−RST: 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   ① IR Sensor

③ Faulty Ind.

②Charging Ind.

Remote test controller
OT-ES809RST only

4.2 Testing（If any failure）

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

4.2.2 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.

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

5 Emergency control logic

The emergency function control logic

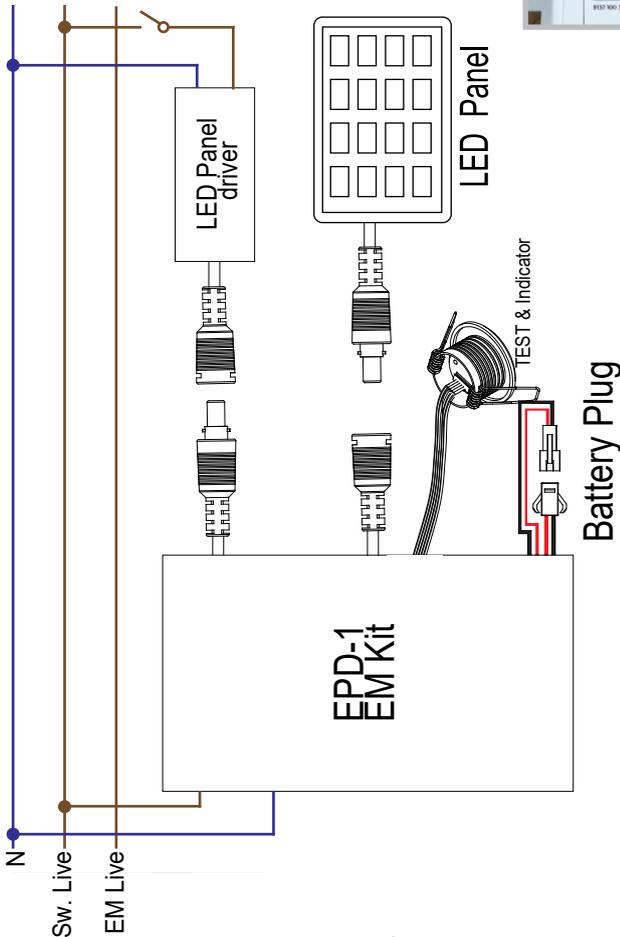| Operation	Charging indicator (Green)		Faulty Indicator (RED)		Emergency LED In Maintained mode		Emergency LED Non-Maintained mode	
Time line	1 Second	1 Second	1 Second	1 Second	1 Second	1 Second	1 Second	1 Second
Normal charging	Constantly on		OFF		Constantly on		OFF	
Normal AC Failure	OFF		OFF		Constantly 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 emergency module contains no user replaceable components other than the battery pack.

• 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.

Check the parameters on LED panel driver before wiring
The output range between DC20–60V.

Uout: 24VDC
In the range

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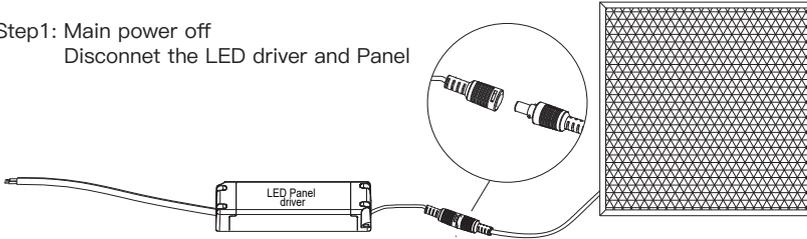
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7 Installation guide

Caution

1. All OTC emergency facilities 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.
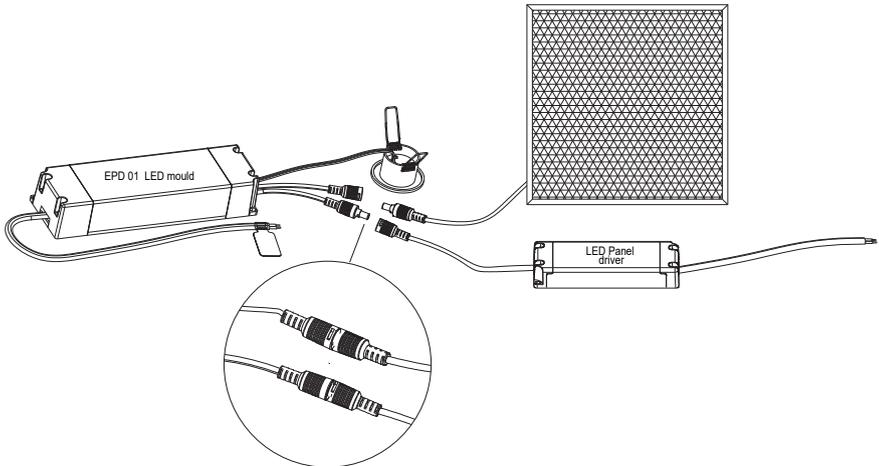
Step1: Main power off
    Disconnet the LED driver and Panel

LED Panel driver

Step2: Connect The LED penel driver to EPD EM module according the Followed.

EPD 01 LED mould

LED Panel driver

Step3: Wiring according Page 7 and AC on

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Luminaire emergency inspection record

month	Test																		

Installed By:

Installed Date:

Luminaire NO.:

Luminaire Locaton:

Contact details: