

Smart Pictogram light IP65

Data sheet

For serial: OT-HLB1



TYPE S



TYPE P



TYPE C



OTC IND CO., LTD

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Dear partners,

* Thanks for Choosing OTC emergency facilities 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 lights with 5 years quality guarantee (Ni-Cd Battery 3 years, LiFePO₄ Battery 2 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 realated information	2
2 Packing list	2
3 Basic Parameters	3
4 Maintained & Non-maintained change over.....	4
5 Self & remote test system	5
6 Emergency controll logic	6
7 Test before installation	7
8 Installation guide	8
9 Telemando function	10
10 EM inspection record table	11

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



Luminaire *1
3 Types available



Remote controller*1
OT-HLB1-RST only



Installation pack *1



User manual *1



Recessed kit
(Optional)



E002-AD E002

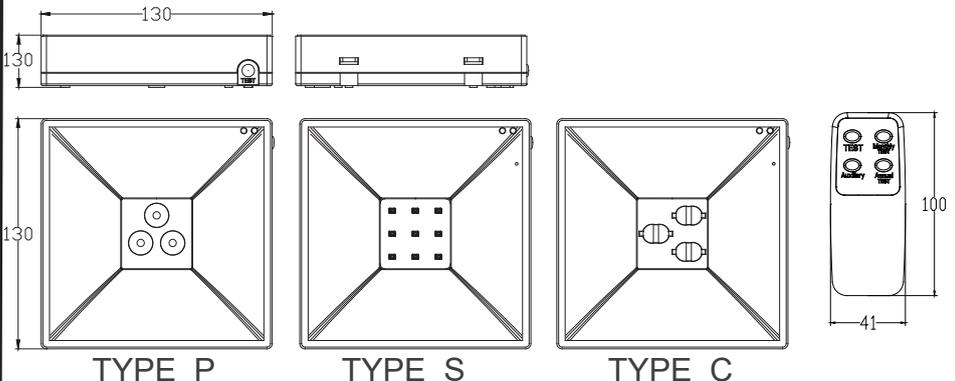


F002 F001 F005

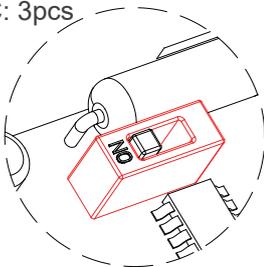
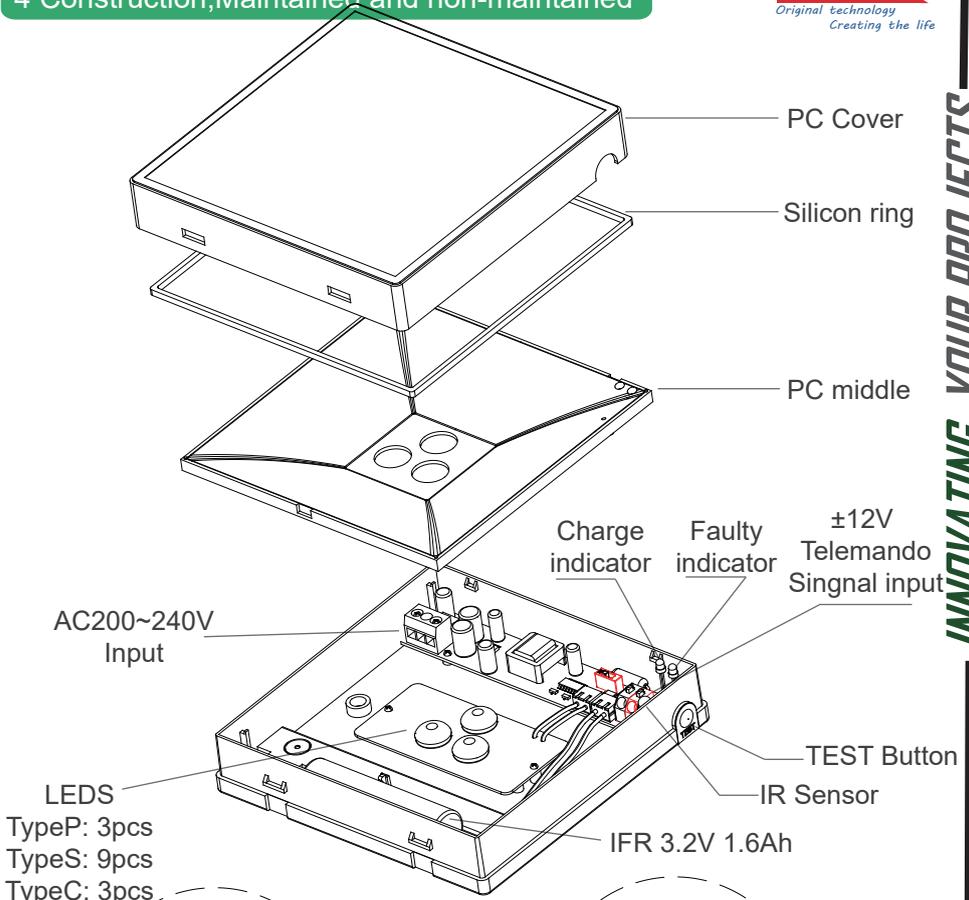
Pictograms for type P
(Optional)

3 Basic Parameters

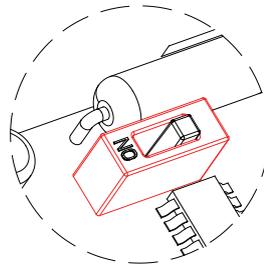
Model	Art Nr. OT-HLB1 Self-test & remote Test series	
	ST	RST
EM Working mode	Non-maintained and Maintained in one design	
Material	Polycarbonate	
LED Chips beam angle	Type P: 3pcs 2835 170° Type C: 3pcs 2835 150*60° Type S: 9pcs 2835 120°	
Input Voltage	AC200-240V 50/60HZ	
Total Input Power	Non-maintained mode: 1.5W Maintained mode : 3.5W (Battery under charging)	
	Non-maintained mode: 0.5W Maintained mode : 2.5W (Battery full charged)	
Luminous Flux In AC mode (AC maintained mode/ DC mode)	Type P: 100Lm / 150Lm Type C: 100Lm / 150Lm Type S: 120Lm / 180Lm	
Color Rendering Index	>80	
CCT	6000K available	
Battery pack	3.2V 1.6Ah LifePO4 (Recommend) Or 3.7V 2.0Ah Li(NiCoMn)O2	
Degree of prtction	IP65	
Power factor	0.5	
Warm up time	<1S	
LED lifespan	50,000 hrs	
Bean angle	150°	
Standard	60598-2-22:2021 & IEC 61347-2-7	
Standard of Pictogram	ISO7010 & ISO3864-1/4	
TEST	Manual + self-test	Manual + self + remote test
Charging indicator	Green	
Faulty indicator	RED	
Charging current	100mA , full charged in 24 hours	
Discharging current	380mA , 3hours	
Guarantee	5 Years (Battery 2 years)	



4 Construction, Maintained and non-maintained



a) Maintained



b) Non-Maintained

Maintained & Non-maintained work mode

The OT-HLB1 can work both in maintained and non-maintained mode.

5 Self & remote test system

5.1 Testing (If no failure)

5.1.1. Manual function test.

Active the ④ test button.
or press “TEST” switch on controller(RST only).

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

5.1.2 Monthly test.

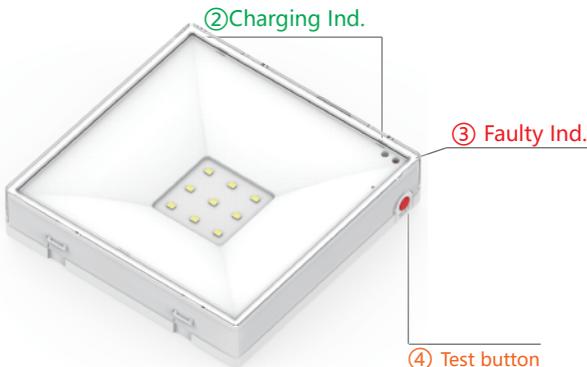
Active the ④ test button for 5 second;
or press the “Monthly TEST” switch on controller(RST only);
or the lamp installed every 30 days.

- 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.

Active the ④ test button for 7 second;
or press the “Annual TEST switch on controller(RST only);
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.



5.2 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

6 Emergency control logic

The emergency function control logic

Operation	Charging indicator (GREEN)		Faulty Indicator (RED)		Emergency LED Maintained		Emergency LED Non Maintained	
	1 S	1 S	1 S	1 S	1 S	1 S	1 S	1 S
Normal charging				OFF	Constantly on			OFF
Normal full charged	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
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

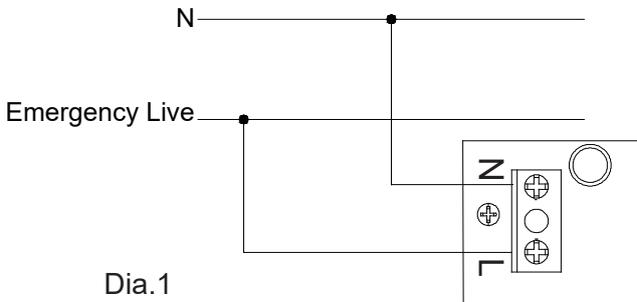
7 Test before installation

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. Connect the AC cable according to the Dia 1.
 Keep battery plugged on.
 Set Maintained /non-maintained mode according Page 4.
2. AC Supply on
 The Charging Indicator On, The faulty Indicator Off
 The EM LED On if set maintained mode in step1 .
 OFF if set Non-maintained mode in step1 .
3. Press the test button, The charging indicator off, and EM LED on.
4. Unplugged the battery,
 Charging indicator OFF,
 Faulty indicator flash in 1Hz.



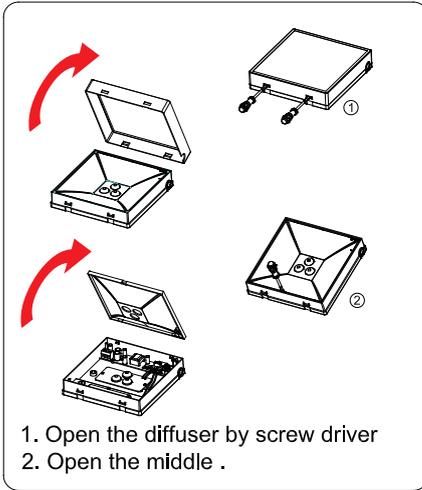
8 Installation guide



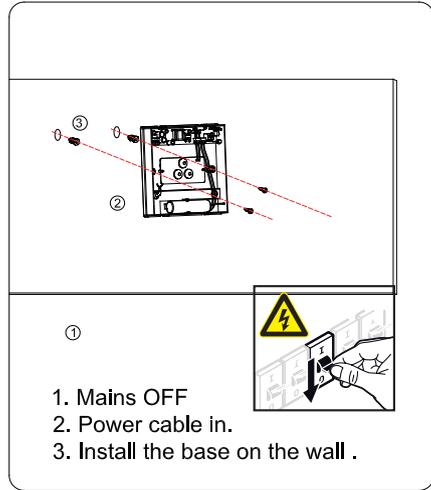
1. All OTC emergency devices are designed for projects. Only qualified electrician can install or maintain them.
2. The mains have to be off during the installation or maintenance.

Caution

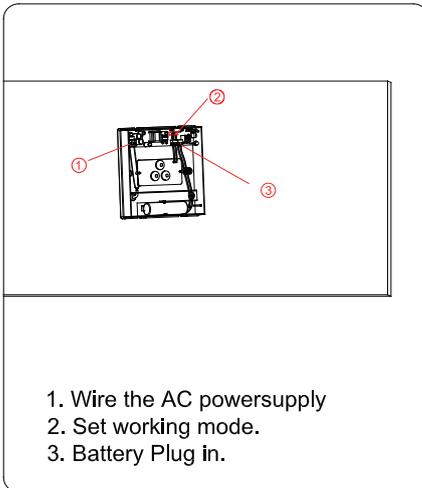
8.1 Wall Mounting



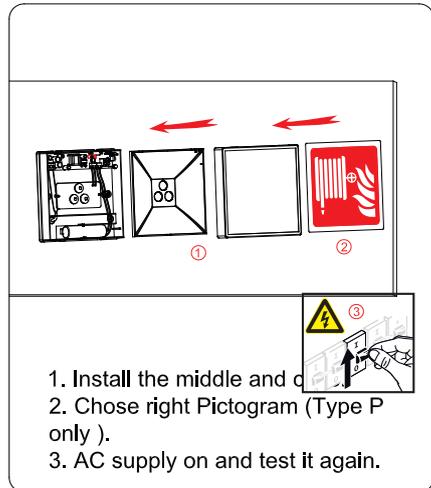
STEP 1



STEP 2

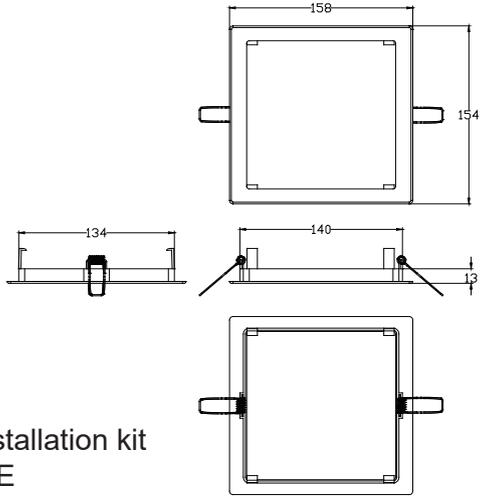
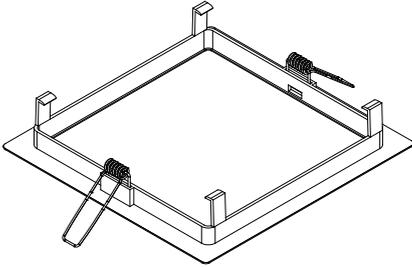


STEP 3

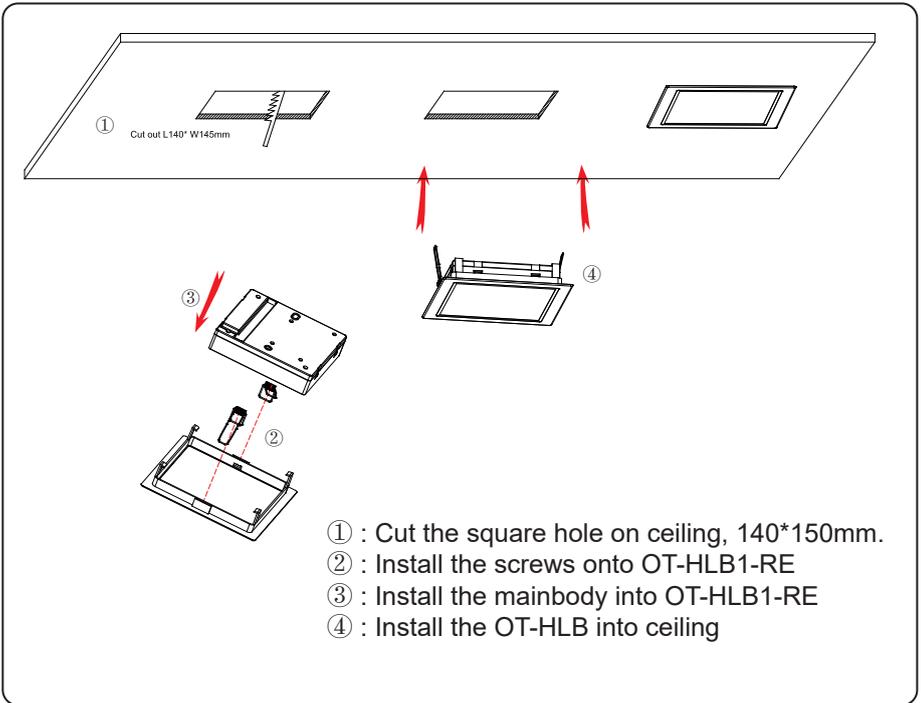


STEP 4

8.2 Recessed mounting



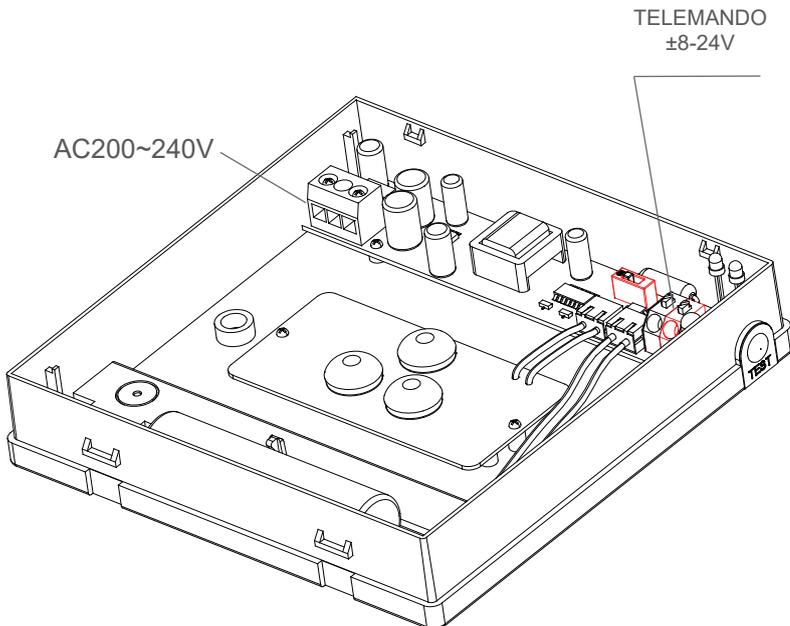
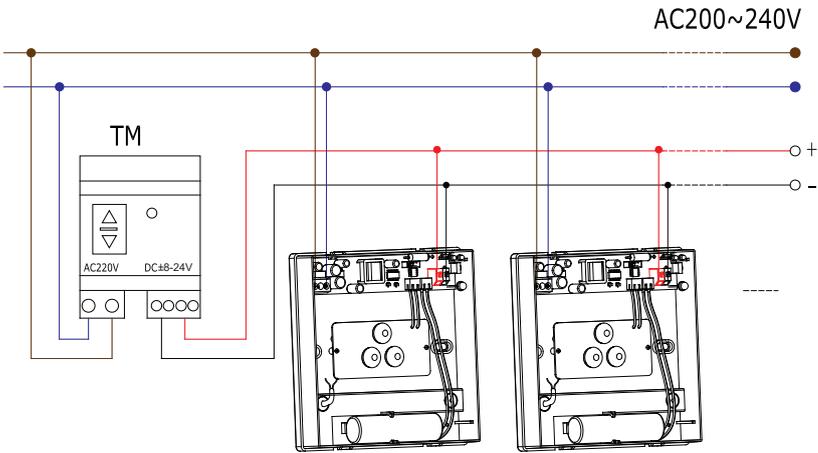
Optional Recessed installation kit
OT-HLB1-RE



9 Telemando test (Optional)

±8-24V telemando remote test function.

This is optional function and need work together with Telemando controller.



10 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: Installed Date: Luminaire NO.:

Luminaire Locaton: Contact details: