Smart Pictogram light

Data sheet

For serial: OT-HLB1S



OTC IND CO., LTD

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RoHS

Ni-Cd

INNOVATING YOUR PROJECTS

Original technology
Creating the life

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, $LiFePO_4$ 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 EM inspection record table 9

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



Luminaire
OT-HLB1S*1



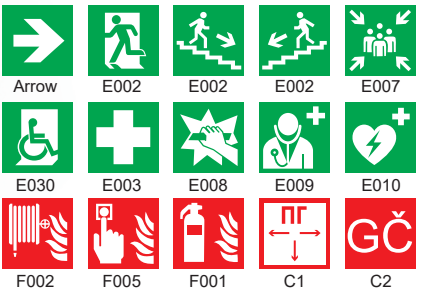
Remote controller*1
OT-HLB1S-RST only



Installation pack *1



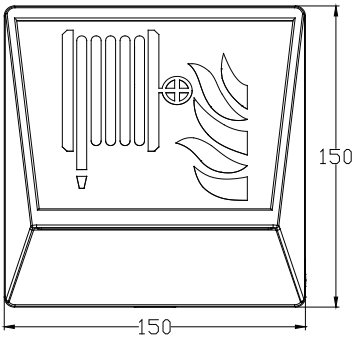
User manual *1

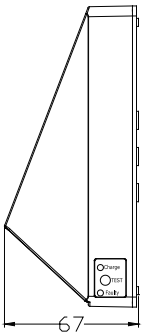


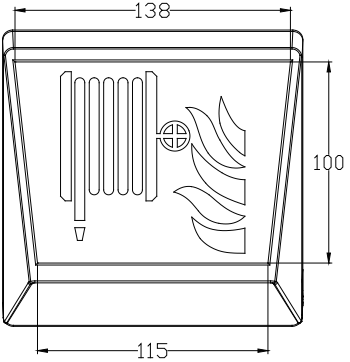
ISO7010:2019 Pictograms

3 Basic Parameters

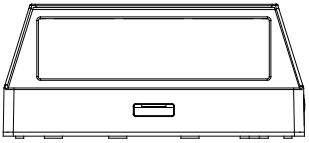
Model	Art Nr. OT-HLB1S Self-test & remote Test series	
	ST	RST
EM Working mode	Top pictogram light: Maintained Bottom emergency light: Maintained /Non-maintained	
Material	100% polycarbonate	
LED Chips	Top pictogram light: 22pcs SMD 4014 Bottom emergency light: 10pcs SMD 2835	
Input Voltage	AC200-240V 50/60HZ	
Total Input Power	Bottom emergency light non-maintained: 2.0W Bottom emergency light maintained :3.0W	
Luminous Flux	Bottom emergency light: 120Lm	
View distance	Top pictogram: 20m	
Color Rendering Index	>80	
CCT	3000/4000/6000K available	
Battery pack	3.2V 1600mAh LiFePO4	
Degree of prtection	IP42	
Power factor	0.5	
Warm up time	<1S	
LED lifespan	50,000 hrs	
Bean angle	Bottom emergency light 120°	
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	
Guarantee	5 Years (Battery 3 years)	

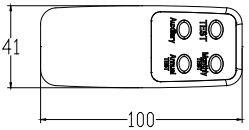




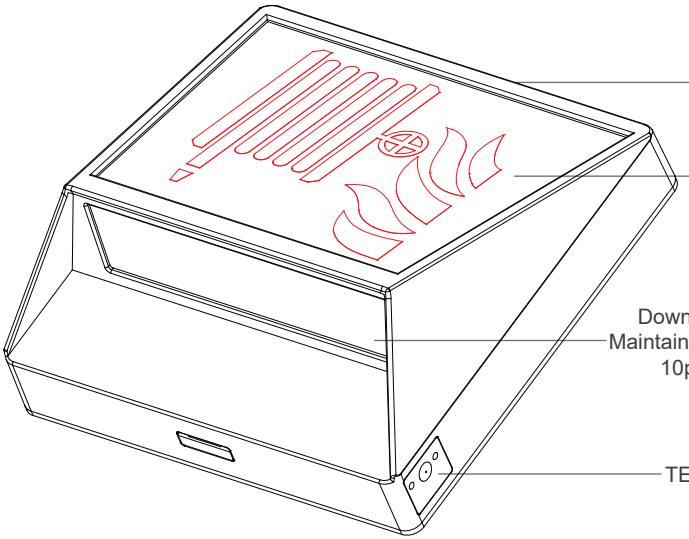


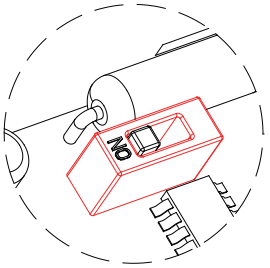
Dimension of Pictogram



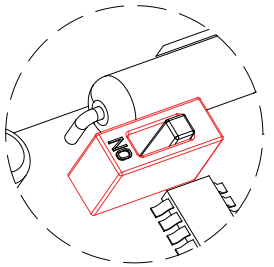


4 Construction,Maintained and non-maintained





a) Emergency downlight
Maintained mode



a) Emergency downlight
Non-Maintained mode

Maintained & Non-maintained work mode

The OT-HLB1S

A) Top Pictogram light, Always maintained.
B) Bottom Emergency downlight. Maintained and non-maitained.

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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.

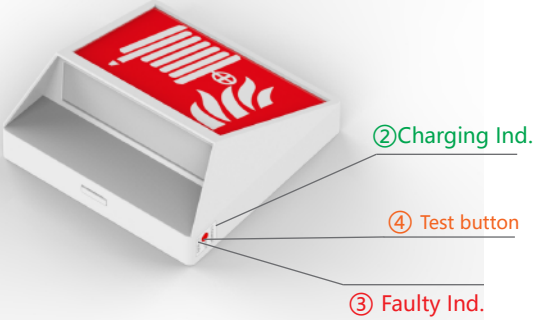
Active the ④ test button for 5 second;
or press the "Monthly TEST" switch on controller(RST only);
or the lamp installed every 30 days.

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.





Remote test controller

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.

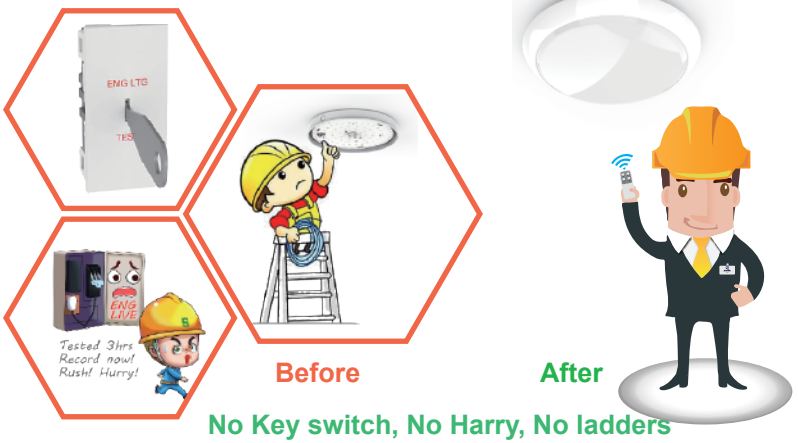
5.2.3 Duration failure:

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	Charging indicator (Green)		Faulty Indicator (RED)		Top Pictogram Maintained mode only		EM Down LED Maintained mode		EM Down LED Non-Maintained	
Time line (Second)	1 S	1 S	1 S	1 S	1 S	1 S	1 S	1 S	1 S	1 S
Normal charging	●		OFF		Constantly on		Constantly on		OFF	
Normal full charged	Constantly on		OFF		Constantly on		Constantly on		OFF	
Normal AC Failure	OFF		OFF		Constantly on		Constantly on		Constantly on	
Manual test	OFF		OFF		Constantly on		Constantly on		Constantly on	
Monthly self-test	●	●	OFF		Constantly on		Constantly on		Constantly on	
Annual self-test	●	● ●	OFF		Constantly on		Constantly on		Constantly on	
Battery circuit failure	OFF		●	●	Constantly on		Constantly on		OFF	
Light source failure	Constantly on		● ●	● ●	OFF		OFF		OFF	
Duration test failure	Constantly on		Constantly on		Constantly on		Constantly on		OFF	



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 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.

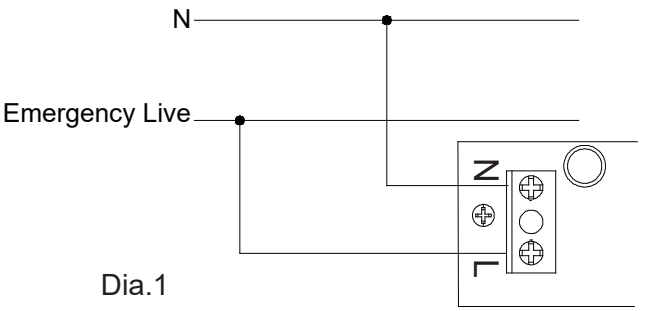
Emergency function test before installation

1. Connect the AC cable according to the Dia 1.
   Keep battery plugged on.
   Set down light Maintained / non-maintained mode according Page 4.

2. AC Supply on
   The Charing Indicator:On; The faulty Indicator: Off
   TOP Pictogram light: ON
   The EM down 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 ALL LED on.

4. Unplugged the battery And press “TEST button”,
   Charging indicator OFF,
   Faulty indicator flash in 1Hz.



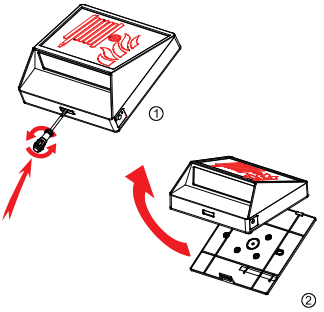
Dia.1

8 Installation guide

Caution

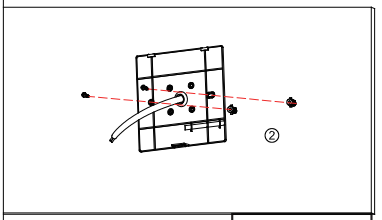
1. All OTC emergency devices are designed for projects. Only qualified electrician can install or maintain them.
2. The mains have to be off during the installation or maintenance.

8.1 Wall Mounting



1. Open the luminaire by screw driver.
2. Open the middle .

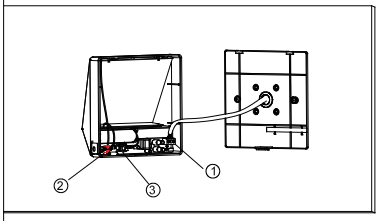
STEP 1





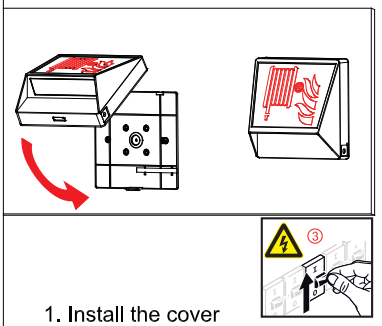
1. Mains OFF
2. Power cable in.
3. Install the base on the wall .

STEP 2



1. Wire the AC powersupply
2. Set working mode.
3. Battery Plug in.

STEP 3



1. Install the cover
2. Chose right Pictogram.
3. AC supply on and test it again.

STEP 4

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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:

.....