

Emergency bulkhead

Data sheet

For Series: OT-OLB3-Li



OTC IND CO., LTD

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Dear partners,

* Thanks for Choosing OTC emergency lamp 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 bulkheads with 5 years (Li battery 3 years) quality guarantee . 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.

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 Lamp *1



The Legend *1 set



Installation pack *1



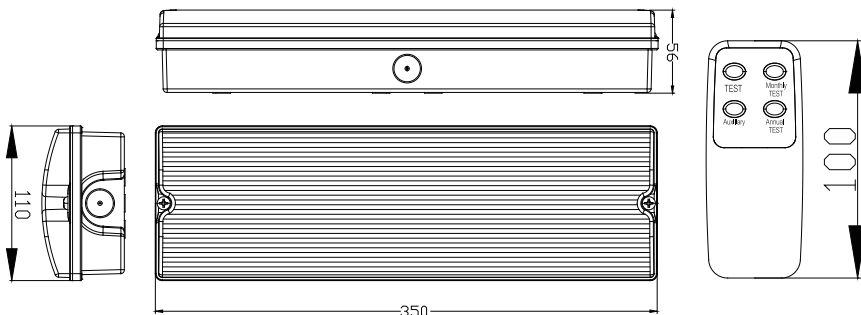
User manual *1



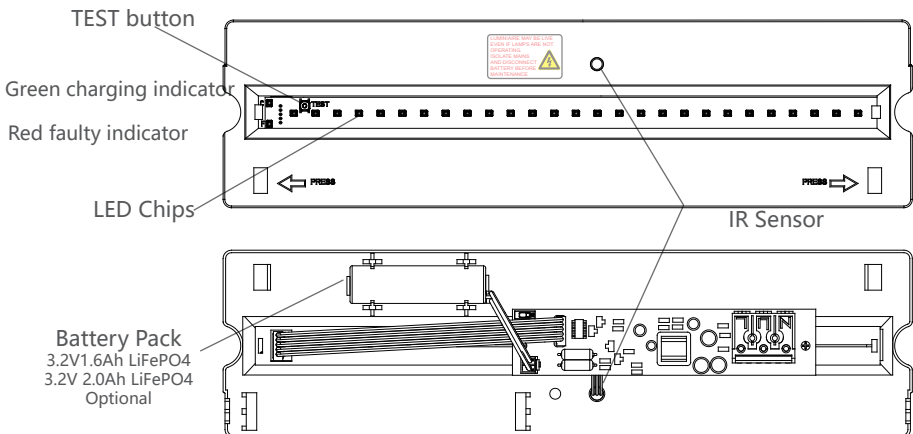
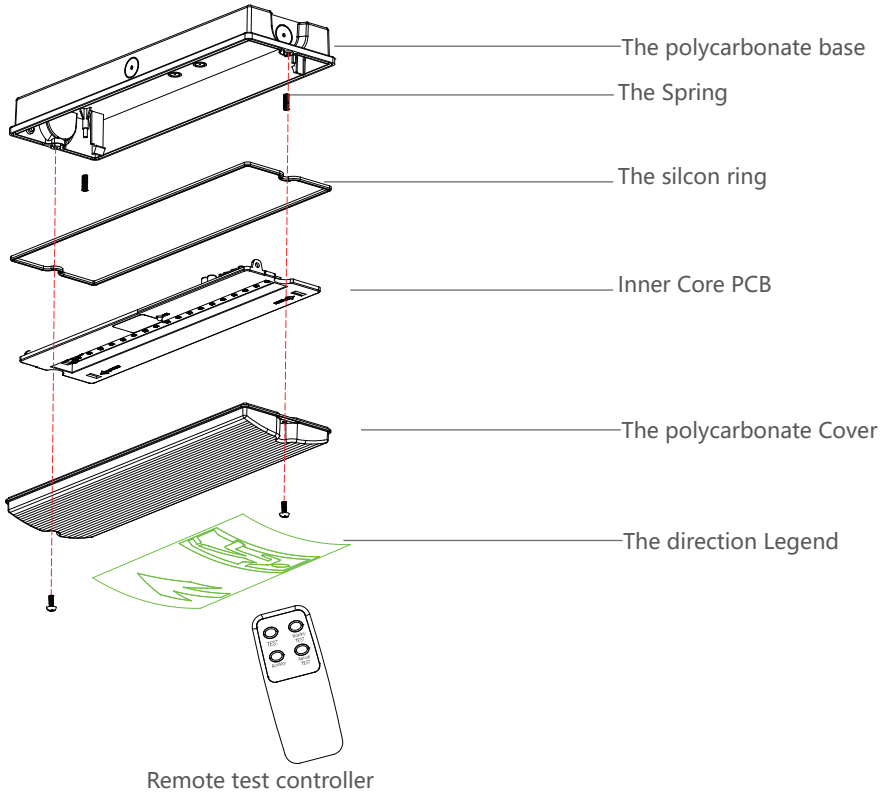
Remote cotroller *1
(Optional)

3 Basic Parmeters

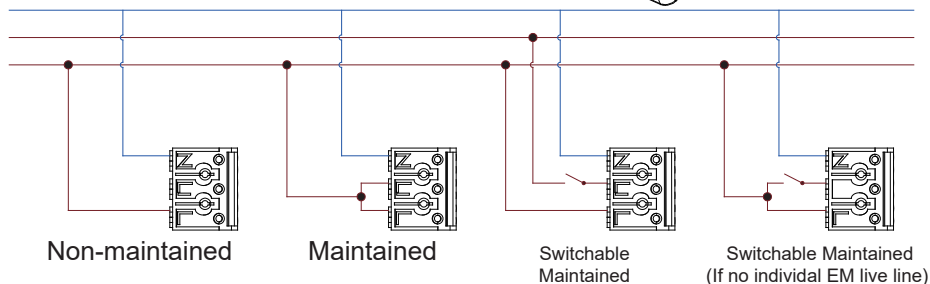
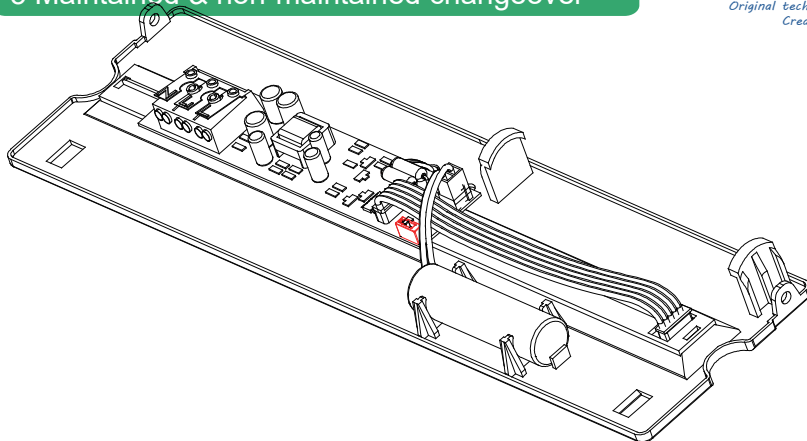
Model	Art Nr. OT-OLB3-**-Li Self-test & remote Test series	
	27ST	27RST
Material	100% polycarbonate	
LED Chips	27pcs 2835	
Input Voltage	AC200-240V 50/60HZ	
Total Input Power	1.5W if non-maintained mode / 5.0W if maintained mode	
Luminous Flux In AC mode	OFF if non-maintained mode / 450Lm if maintained mode	
Battery pack Charging current Discharge current EM lumen	LiFePO4 3.2V 1.6Ah 100mA 400mA 160Lm(only14LED ON) LiFePO4 3.2V 2.0Ah 100mA 500mA 200Lm(only14LED ON) LiFePO4 3.2V 3.2Ah 200mA 800mA 300Lm(only14LED ON)	
Emergency time	3 hours	
Battery Temp. protection	With NTC sensor, Charging only between 0~55℃	
Color Rendering Index	>80	
CCT	3000/4000/6000K available	
Degree of prtction	IP65	
Power factor	0.5	
Warm up time	<1S	
LED lifespan	50,000 hrs	
Bean angle	120°	
Standard	60598-2-22:2021 & EN62034	
The Photonetic standard	ISO 3864-4:2011 / EN 1838-2013	
The Legend standard	ISO 7010:2019	
TEST	Manual + self test	Manual + self + remote test
Charging indicator	Green	
Faulty indicator	Red	
Guarantee	3 Years	



4 General construction



5 Maintained & non-maintained changeover



6 Emergency function

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 User manual. 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 5. Keep the Switch Live off, and battery plugged on.
(The green charging indicator on, Faulty indicator off)
2. Press the test button, The charging indicator off, and emergency function actived, 14led on.
3. Unplugged the battery, charging indicator OFF, the faulty indicator flash in 1HZ.

7 Self & remote test system

7.1 Testing (If no failure)

7.1.1. 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

7.1.2 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.

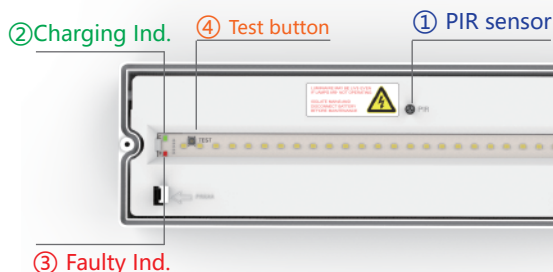
- a) The ② Charging indicator will flash in 1Hz for 128s;
- b) The Emergency function ON;
- c) The test finished and back to standby mode.

7.1.3 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

7.2 Testing (If any failure)

- 7.2.1 Battery failure: 
Monitored constantly. The ③ faulty indicator will flash in 1 Hz if the battery failure any time.
- 7.2.2 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.
- 7.2.3 Duration failure: 
Only in Annual self-test. The ③ faulty indicator will turn on constantly if the Battery can not last 3 hours

8 Emergency control logic

The emergency function control logic

Operation	Charging indicator		Faulty Indicator (RED)		Emergency LED Maintained mode		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		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

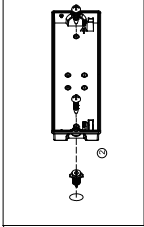
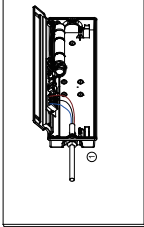
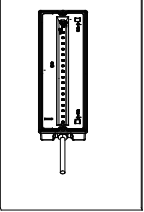
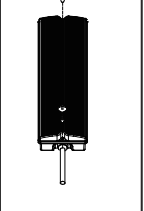
No Key switch, No Harry, No ladders
Safe / Easy / Convenient

9 Installation guide



Caution

1. All OTC LED bulkheads 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.

 1. Mains OFF 2. Knock out the cable hole. 3. Install the base on the wall.	 1. Fix power cable by M20 2. Connect the cable to driver. 3. Connect the battery pack 4. Chose right work mode by dip switch	 1. Fix the middle plate	 1. Fix the diffuser. 2. Mains on and test the lamp	STEP 1 STEP 2 STEP 3 STEP 4
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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: