



Emergency bulkhead

Data sheet

For Series: OT-OLB3S Self test series



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 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.
- 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



The Lamp *1



Installation pack *1



The Legend *1 set



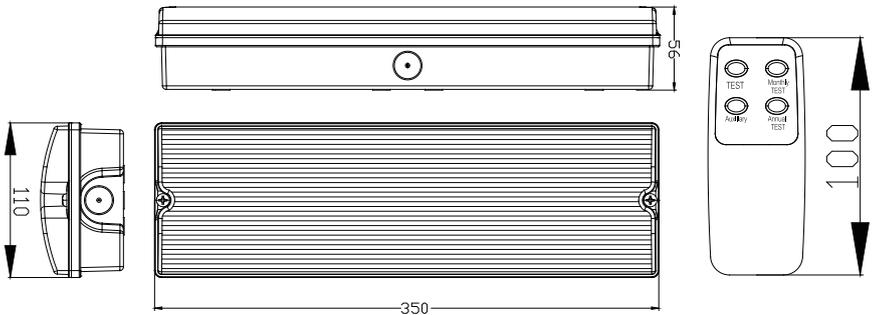
User manual *1



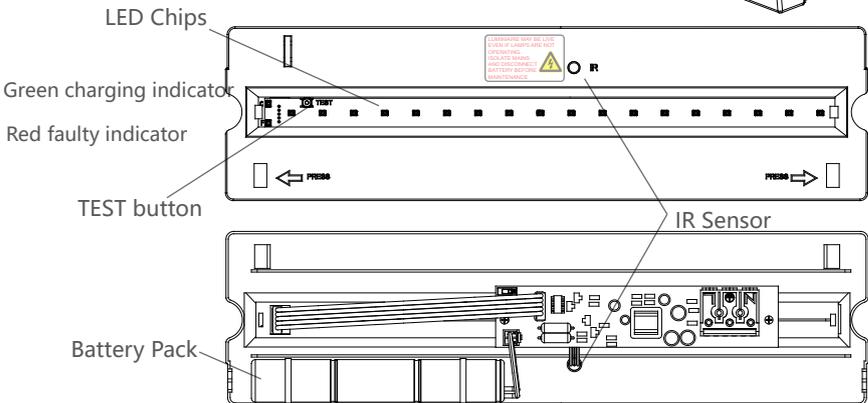
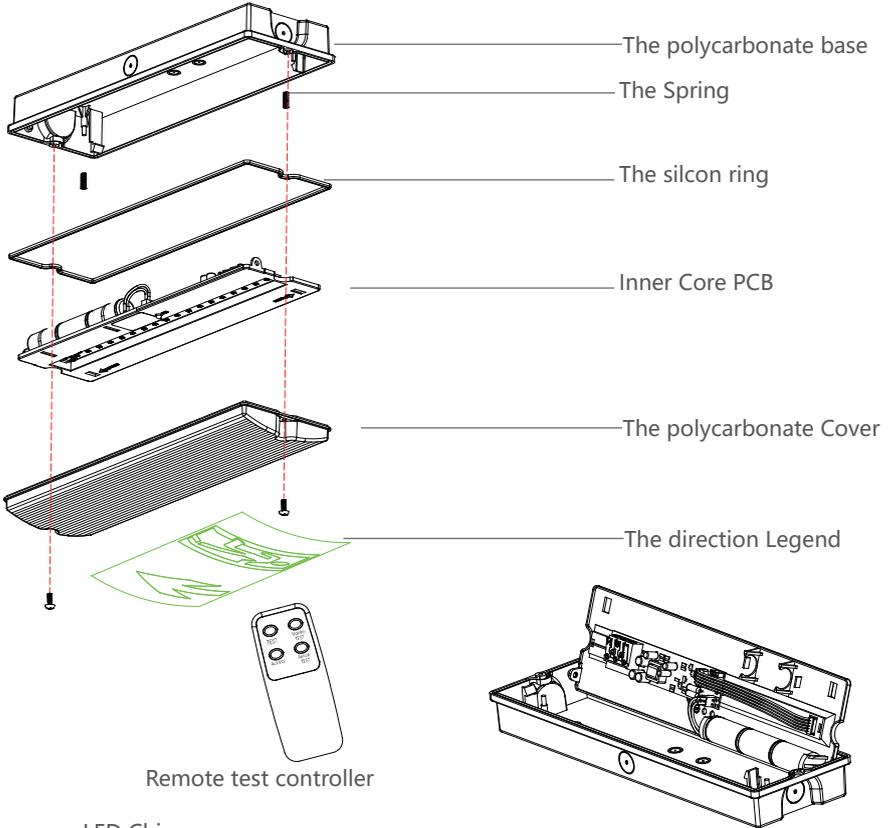
Remote cotroller *1

3 Basic Parameters

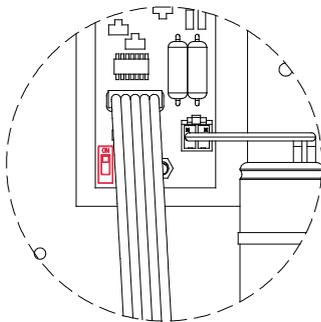
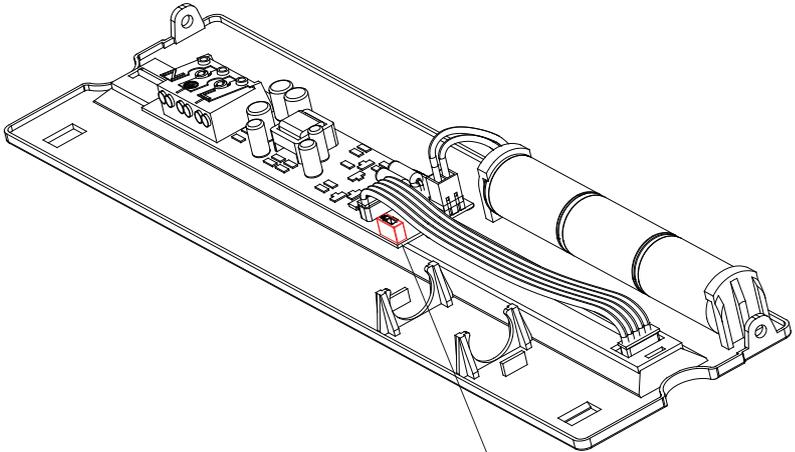
| Model | Art Nr. OT- OLB3S Self- test & remote Test series | |
|--------------------------|---|-----------------------------|
| | 18ST | 18RST |
| Material | 100% polycarbonate | |
| LED Chips | 18pcs 2835 | |
| Input Voltage | AC200- 240V 50/60HZ | |
| Total Input Power | 1.5W if non-maintained mode / 4.0W if maintained mode | |
| Luminous Flux In AC mode | OFF if non-maintained mode / 100Lm if maintained mode | |
| Luminous Flux In EM mode | 130Lm | |
| Color Rendering Index | >80 | |
| CCT | 3000/4000/6000 available | |
| Battery pack | 3.6V 1.2Ah Ni- Cd | |
| Degree of protection | IP65 | |
| Power factor | 0.5 | |
| Warm up time | <0.1S | |
| LED lifespan | 50,000 hrs | |
| Beam angle | 120° | |
| Standard | 60598 - 2- 22:2021 & EN62034 | |
| Standard of Legend | ISO7010 & ISO3864- 1/4 | |
| TEST | manual test + self- test | manual + self + remote test |
| Charging indicator | Green | |
| Faulty indicator | RED | |
| Guarantee | 4 Years | |



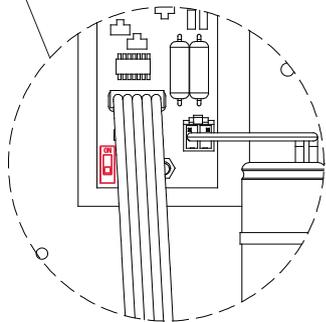
4 General construction



5 Maintained & non-maintained changeover



a) Maintained



b) Non-Maintained

Maintained & Non-maintained work mode

The OT-OLB3S series can work both in maintained and non-maintained mode.



a) Dip switch ON. It works in maintained mode;



b) Or it works in non-maintained mode.

6 Emergency function

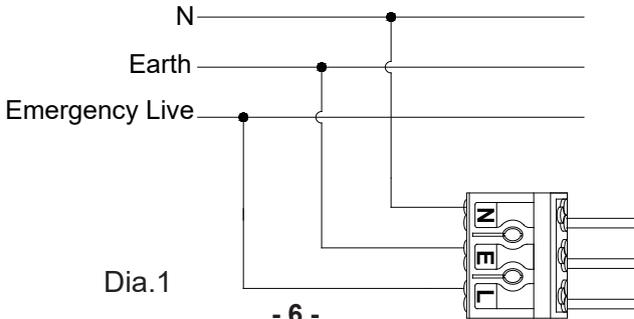
| Emergency Technical Data | |
|--------------------------|---------------------------------|
| Battery Type | Ni-CD 3,6V 1.2/1.8Ah |
| Battery Charging | 60mA, Charging >90% in 24 hours |
| Discharging | 200mA, >3hours autonomy time |
| Test Button | Included |
| Self-test | Included |
| Charging Indicator | Green LED |
| Faulty Indicator | RED LED |
| Remote test | Included |
| Standard | IEC60598-2-22:2021 |

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 Dia 1. 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 activated
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.

OT-OLBS18ST /18RST: Active the ④ test button.

OT-OLBS18RST: also can press “TEST” switch on controller.

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

7.1.2 Monthly test.

OT-OLBS18ST /18RST: Active the ④ test button for 5 second;
 OT-OLBS18RST: also can press the “Monthly TEST” switch on controller;

Or OT-OLBS18ST /18RST: the lamp installed every 30 days.

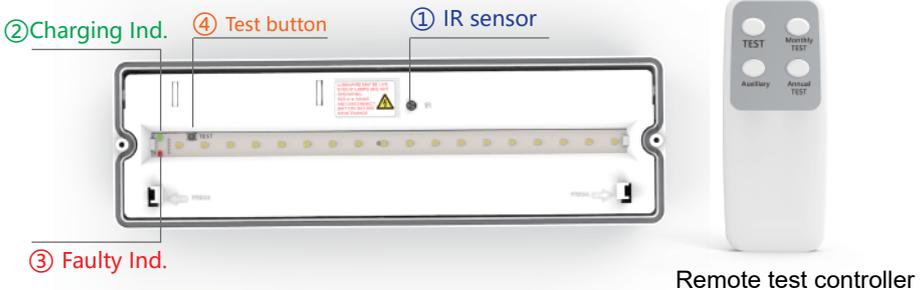
- a) The ② Charging indicator will flash in 1Hz for 128s;
- b) The Emergency function ON;

7.1.3 Annual test.

OT-OLBS18ST /18RST:Active the ④ test button for 7 second;
 OT-OLBS18RST: Also can press the “Annual TEST” switch on controller;

Or OT-OLBS18ST /18RST: 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 (Green) | | Faulty Indicator (RED) | | Emergency LED Maintained mode | | Emergency LED Non-Maintained mode | |
|-------------------------|---|---|---|---|-------------------------------|----------|-----------------------------------|----------|
| | 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 | |
| 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

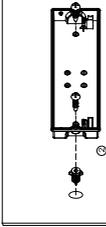
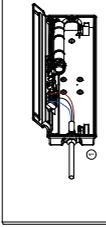
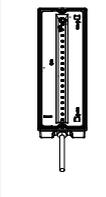
No Key switch, No Harry, No ladders
Safe / Easy / Convenient

9 Installation guide

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.



Caution

| | | |
|---|---|---------------|
|  |  <ol style="list-style-type: none"> 1. Mains OFF 2. Knock out the cable hole. 3. Install the base on the wall . | <p>STEP 1</p> |
|  | <ol style="list-style-type: none"> 1. Fix power cable by M20 2. Connect the cable to driver. 3. Connect the battery pack 4. Choose right work mode by dip switch | <p>STEP 2</p> |
|  | <ol style="list-style-type: none"> 1. Fix the middle plate | <p>STEP 3</p> |
|  |  <ol style="list-style-type: none"> 1. Fix the diffuser. 2. Mains on and test the lamp | <p>STEP 4</p> |

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: Luminaire NO.:
 Installed Date:
 Luminaire Locaton: Contact details:

11 Cheap solution DIY



WARNING

1. All OTC emergency lights are designed according 60598-1 and 60598-2-22:2014 strictly. There is no trouble if you chose OTC products for bidding projects, including project acceptance, monthly, annual inspection.
2. If you only need sell it online/ 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 Cover | PC Plastic | PS | IK09=>IK06 Not fire resist |
| 3 | Material of Base and middle | PC Plastic | ABS | IK09=>IK07 Not fire resist |
| 4 | Battery pack | 3.6V 1.2Ah Ni-Cd | 3.7V Li-ion | |
| 5 | Lumen output | Constant brightness | Bright at beginning Waker in 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 | EM work mode | Non-Maintained and Maintained in one | Only Non-maintained | According to your request No Disadvantage |
| 8 | EM driver | Isolated | CBB solution | Can not IEC61347-2-7 compliant |
| 9 | Input terminal | Easy Pull in terminal | Screw Terminal | Can not wiring conveniently |
| 10 | Installation pack | Installation pack in Page2 | No installation pack | |

OTC only guarantee the EM function of luminaire if DIY !

Please check the request / standard with local fire department before making decision.