

Emergency Luminares **MODEL : SE-30**



BEFORE YOU BEGIN

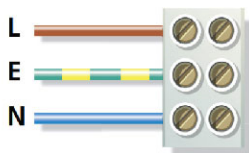
Read this instructions completely and carefully .



WARNING / COMMERCIAL EMERGENCY LUMINAIRE INSTALLATION GUIDE

- Equipment should be mounted in locations and at heights where it will not be subject to tampering by unauthorized personnel.
- Do not use outdoors.
- Do not mount near gas or electric heaters.
- Read all product labels and instructions before installing fixture.
- The use of accessory equipment that is not recommended by the manufacturer may cause an unsafe condition.
- Servicing of this equipment should be performed by qualified personnel and do not use this equipment for other than its intended use.
- To prevent wiring damage or abrasion , do not expose wiring to edges of sheet metal or other sharp objects.
- Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.
- Installation should only be performed after power to the fixture has been disconnected.

Non-maintained, 3 wires:
Permanent live (L),
Earth (E), Neutral (N)



Non- maintained luminaires activate only on failure of the local mains supply and require connection to permanent live , earth and neutral. It does not when healthy mains.

Lamp is OFF and battery is on automatic charging mode (with Red Led "ON" indication) when A.C. power is supply.

Lamp is ON automatically when the A.C. power supply is interrupted.

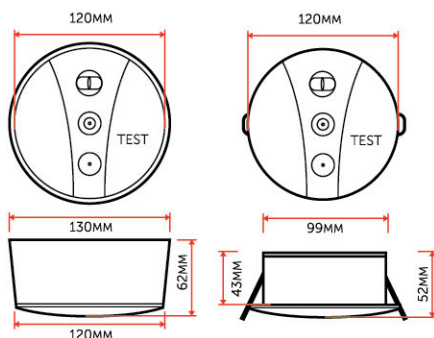


Product Details Requirements

Model	Code	Description	Input Voltage	Frequency	Temperature	Input Wattage	Input Current	IP
SE-30	SE30	Round Emergency Light	240V ~	50 Hz	ta 35° C	2.0 W	0.06 A	20

Product Dimensions

Description	Length	Height	Diameter
Outer Fixture	130 MM	62 MM	120MM
Inner Fixture	99 MM	52 MM	120MM



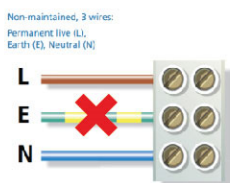
INSTALLATION SURFACE-MOUNTED TYPE

Make sure the POWER IS TURNED OFF at the source to the location in which you are installing the product.

- STEP 1** Make sure the POWER IS TURNED OFF at the source to the location in which you are installing the product.
- STEP 2** Connect the power supply with an unpowered 240VAC~ connect to Live(L) and Neutral(N) terminals onto Inner light fixture.
- STEP 3** Press the Outer Fixture with the " ↑ " arrow sign to **remove** or **Insert** Inner fixture.
- STEP 4** Push the inner light fixture into the outer Base fixture with the " ↑ " indicating arrows



STEP 1



STEP 2

Earth is not require for polycarbonate enclosure



STEP 3



STEP 4

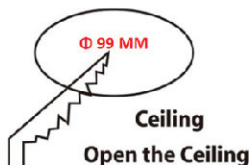


STEP 5

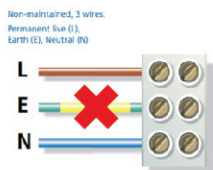
INSTALLATION RECESSED-MOUNTED TYPE

Make sure the POWER IS TURNED OFF at the source to the location in which you are installing the product.

- STEP 1** Ensure the inner fixture insert hole $\Phi 110$ MM which able to mount into ceiling either having clear or via conduit box having cleared an access hole in the body for the cable .
- STEP 2** Connect the power supply with an unpowered 240VAC~ connect to Live(L) and Neutral(N) terminals onto Inner light fitting.
- STEP 3** Push the inner light fixture inside the ceiling , release the housing clips and continue pushing into ceiling until securely fixed and flush.

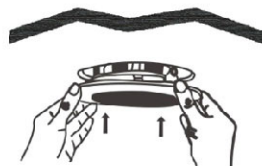


STEP 1



STEP 2

Earth is not require for polycarbonate enclosure



STEP 3

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INSTALLATION GUIDE AND OPERATION MANUAL

ESCAPE ROUTE

"Emergency escape routes, intersections of corridors and exits doors requiring illumination must be provided with emergency lighting of adequate intensity in case the lighting fails". Outside each final exit and on external escape routes.

SIGNAGE

Adequate provision of signs protected by emergency lighting. Signs should be located at all final exits and also on the escape routes at any location where the route may be in doubt.

OPERATION

- 1.) Connect 240VAC ~ 50Hz supply , lamp is OFF and battery is on automatic charging mode (with Red LED "ON" indication) , Lamp is ON automatically when A.C. supply interrupted or charging circuit failure.
- 2.) Press " TEST BUTTON" , the red indication light goes off and the LED Emergency Lights will Turn ON . The Test Button Switch is designed to avoid unauthorised switching and be arranged to ensure the supply is never unintentionally left disconnected.

Important:

The battery in this unit may not be fully charged after electricity is connected to the unit, let the battery charge for at least 24 hours. Normal operation of this unit should then take effect. To check, press the push-to-test switch, the light inside the unit should then turn on.

- 3.) When carrying out a test by simulating a mains failure , safe procedures must be followed:
 - a.) Do not switch off other essential services or equipment.
 - b.) Do not fully discharge a system if the building has to be re-occupied before re -charge is completed (typically 24 hours).
 - c.) Do not test by removing fuses . This practice is not safe. The test switches or systems should be utilised.

FAILURE ANALYSIS AND TROUBLE SHOOTING

Problems	Causes and Analysis	Solutions	Remarks
Switch on power supply, Red indicator light not emitting	No AC supply (220V-240V) to emergency light	Check power supply	If the unit does not light up (LED indicator does not come on)... Check to see if the supply wires are properly connected. Mis-wiring (connecting 277V input to a 120V wire or vice versa) can either cause the unit to malfunction. In some cases there might be a gap between the input clip and the board. Check to make sure the clip sits correctly on the board.
	AC supply fuse burnout	Replace fuse	Unit does not come on in emergency... The battery in the unit needs to be connected right after AC power is supplied to the unit, so make sure that gets done. Also the battery needs to charge for a couple of hours before doing any tests. 24-hr recharge is required for a full 90-minute emergency operation.
Lack of time after normal power supply cut-off	Power pack failure	Replace power pack	If battery connected; Unit still doesn't come ON in emergency... Battery should have been in a charging mode for at least a couple of hours. Further lamp connections could be checked. The battery also needs to be charged for a few hours in order to be able to light up the lamps. If all these conditions are met and the lamps still don't come on, then the battery might need to be replaced.
	Lack of charging time	To reperform test after 24 hours of charging	

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MAINTENANCE AND RECOMMENDED ROUTINE TEST PROCEDURES

All emergency lighting systems are required to be subjected to regular testing and inspection to ensure correct operation during in an emergency. All too often emergency lighting has been seen as a 'fit and forget' product. A consultant or specifier may have carefully designed an emergency lighting installation, the equipment may have been correctly installed and certified as complying with the appropriate standards and then it is totally neglected. It should not, then, be a surprise when it fails to operate when required. The implications of failure of the emergency lighting may of course be catastrophic, with the lives of building occupants being put at risk.

Daily • Visually check and inspection of RED LED indicate battery charging.

Monthly • Check all emergency lighting equipment are in a good condition, all lamps and light controllers are clean, undamaged and not blackened.
• Briefly test all emergency lighting equipment by simulating a failure of the normal lighting supply. The test should not exceed a quarter of the equipment rated duration. Check that all equipment functions correctly.
• Check that, upon restoring the mains supply, all supply healthy indicators are again illuminated.

Twice a year • Carry out the inspection and testing as described in the monthly test schedule, but conduct a test of the equipment for one third of its rated duration.

Annually • A full system test should be conducted by a competent service engineer including a full rated duration test of the system.

BATTERY

- The High Temp Sealed Lithium Iron Phosphate (LiFePO₄) shall perform a minimum three(3) hours back up DC supply to the light source when A.C. supply is interrupted.
- LiFePO₄ batteries is preferred because it is physically smaller compared to NiCd and NiMH batteries. It also has longer rated life.
- It is required to recharge for 24 hours after storage period is over three(3) months in order to perform as required standard.
- When the Battery life span and performance dropped to 10% , it is required to change or replace the batteries as follow:
 1. Switch-off AC power supply, open up the cover, unplug battery wire, take out battery and replace with a new one.
 2. Connect red wire to positive terminal, black wire to negative terminal.Used battery will pollute the environment and needed to be recycled by special authority.

PRODUCT WARRANTY

- The Warranty applies only when (1) **SHINZ** Emergency Fixtures products containing Batteries have been continuously connected to an AC input power source, OR (2) Batteries sold separately have been placed in fixtures continuously connected to an AC input power source, in each case within 2-5 years of the date of purchase.
- The Product warranty is subject to Terms and Conditions of **SHINZ's** Product Warranty Policy.
- **SHINZ** can at our discretion replace faulty product(s) on goodwill basis in the event where the cause of failure is not clearly identifiable. The execution of warranty is subjected to the conditions stated in the Warranty terms and conditions. This limited warranty covers the cost of the product only. Site cost is not recoverable.