

# CHANNEL

SAFETY SYSTEMS

# Grove



## LED Twin Spot from Channel Safety Systems

**CHANNEL SAFETY SYSTEMS**  
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**INSTRUCTION MANUAL**

# INSTALLATION

## All Installations should be carried out by a competent electrician.

1. Lay fitting on its back and remove lid.
2. Remove and discard packing pieces.
3. Fit unit securely to wall, unit may be mounted in any orientation.
4. Connect a 230V AC supply to the 'L E N' terminal block on the circuit board.
5. Connect the battery to the PCB terminals **ensuring correct polarity is observed.** (Red +ve, Black -ve).

Follow for the IP65 Version: -



1. Position the lamps to the required position and use the locking screws to secure the lamps in the chosen position.

Horizontal Adjustment Screw

Vertical Adjustment Screw



2. Please note if the unit is fitted directly to a wall and downward light is required, the unit must be mounted with the lamps at the top.
3. The unit will not illuminate in emergency mode until the mains has been switched on and subsequently failed.
4. Operational check – Restore the A.C. supply for 30 minutes and then remove. The lamps should illuminate for at least 30 seconds.
5. Switch on the mains supply and note that the indicator LED's have illuminated, proving that the unit is operational, the lamp continuity is OK and that the battery is being charged.
6. The unit has deep discharge protection and this should operate when the battery voltage falls to approx. 8V DC, whilst in the Emergency Mode.

Follow for the IP20 Version: -



1. The unit will not illuminate in emergency mode until the mains has been switched on and subsequently failed.
2. Operational check – restore the A.C. supply for 30 minutes and then remove. The lamps should illuminate for at least 30 seconds.
3. Switch on the mains supply and note that the indicator LED's have illuminated, proving that the unit is operational, the lamp continuity is OK and that the battery is being charged.
4. The unit has deep discharge protection and this should operate when the battery voltage falls to approx. 8V DC, whilst in the Emergency Mode.

## Fault finding

**Monitoring LED's** –The left hand LED indicates that the unit has a 230vAC supply and is charging the battery, if it is not illuminated, then the mains 230v supply has failed, or the battery is faulty/disconnected. The right hand LED indicates the lamps (LED clusters) are connected to the unit.

## Unit Not Meeting Required Emergency Period

May require cycling. Discharge, then recharge for at least 24 hours. Re-test. Battery may need replacing if emergency duration still not met. To be regularly tested in accordance with BS5266-1:2005

# TESTING

## Recommended Routine Test Procedure

The following test is designed to ensure the continued protection of your premises and occupants. Because of the possibility of a failure of the normal lighting supply occurring shortly after a period of testing, all tests should, whenever possible, be undertaken at times of least risk, e.g. during daylight hours.

### Once A Day

Visual inspection of battery charge led.

### Once A Month

Each unit should be energised from its battery for adequate time to ensure, by simulation of a failure of the normal lighting supply, the emergency mode is functioning correctly.

### Once Each Year

All units should be placed into emergency mode and checked that the duration provided by the battery meets the specified time period.

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