

# CHANNEL

SAFETY SYSTEMS

## meteor

FLUORESCENT



### **Conventional fluorescent luminaires & signage** 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. Remove the diffuser from the body by easing each of the 4 'lugs' off the body clips using a 6mm flat blade screwdriver.
2. Release gear tray by easing the plastic clips away from the metal tray and lifting this away from the base.
3. Fix base to wall or ceiling either direct or via conduit box, having cleared an access hole in the body for the cable. If IP65 protection is required use a weatherproof gland to terminate cable.
4. ISOLATE THE A.C. SUPPLY and connect unit. An un-switched 240V A.C. supply must be connected to the Live (L), Earth and Neutral (N) terminals on the PCB block. On Maintained circuits continuous illumination can be achieved by connecting a link between S1 and S2 either locally or through a remote switch.
5. Plug battery lead into connector on the PCB.
6. Refit the gear tray into the base of the unit making sure the two plastic clips capture it correctly
7. Refit Diffuser and press each of the 4 'lugs' to ensure they are fully located.
8. Operational Check - Restore the A.C. supply for 30 minutes and then remove. The lamp should strike and illuminate for at least 10 seconds.
9. Restore the A.C. supply and check that the charge indicator LED is 'on'.
10. **ENSURE FITTING IS CHARGED FOR A MINIMUM OF 24 HOURS PRIOR TO TESTING.**

# OPERATION

**Non-Maintained**

Lamp normally off and battery on automatic charge (LED 'on') when A.C. supply is healthy. Solid state circuitry automatically switches lamp on when A. C. supply is interrupted.

**Maintained**

Emergency lamp normally on, when the supply to S2 is switched on. The battery is on automatic charge (LED 'on'). Lamp will switch on or remain on if A.C. supply is interrupted.

**Monitoring**

Green indicator lamp (LED) normally continuously 'on'. Indicator lamp goes out if A.C. supply or charger fails.

**Battery**

Sealed Nickel - Cadmium rechargeable battery pack.

**Temperature**

Performance figures measured at 25°C.

**Fault Finding And Corrective Action****Monitoring Led Not Illuminated**

A.C. supply not healthy. Battery not connected. Charger failed.

**Unit Not Meeting Required Emergency Period**

May need cycling: Discharge then recharge for 24 hours. Re-test. Battery pack may need replacing if emergency duration still not met.

**Lamp Not Fully Illuminated**

If tube ends blackened replace tube. If illumination is hesitant and of a low level, either the battery pack or (less likely) the printed circuit board needs replacing.

# 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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