

CHANNEL

SAFETY SYSTEMS

forest



LED emergency exit sign from Channel Safety Systems

CHANNEL SAFETY SYSTEMS

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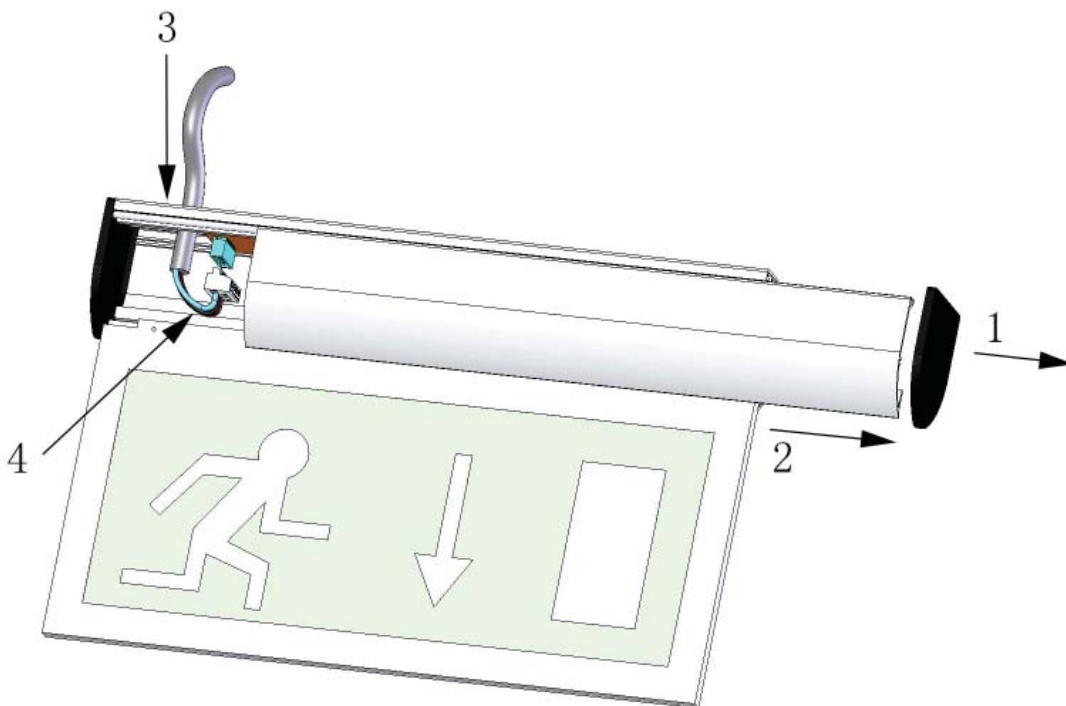
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INSTRUCTIONS

INSTALLATION

All Installations should be carried out by a competent electrician.

1. Remove the black end cap,
2. Slide the aluminium cover off,
3. Feed the AC wire through the hole on the top of the aluminium housing into the main body of the light
4. ISOLATE THE A.C. SUPPLY and connect unit. An unswitched 230V A.C. \pm 10% supply must be connected to the live (L). Earth and neutral (N) terminals on the PCB block. When **Maintained operation is required, illumination can be achieved by connecting a link between L' and L either locally or through a remote switch, or by switching a 'Live' feed in to L'.**
5. The battery is pre-connected.
6. Fit the 'legend blade' Refit the aluminium cover & black end cap.
7. Operational Check – Restore the A.C. Supply for 30 minutes and then remove. The LED's should illuminate for at least 10 seconds.
8. Restore the A.C. supply and check that the indicator LED is 'on'.
9. A method of testing the luminaire should be incorporated in the supply circuit. This should be installed to fail the un-switched supply. A key switch may be suitable (EN 60598-2-22:1998 22.20.1)



OPERATION

Non-Maintained

LED's 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 LED's normally on, when the supply to L' 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.

Environmental Parameters

Rated performance limits: Temperature Min 5°C Max 25°C
Humidity 80% max

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 it's 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.








Forest 'Self-Test'

- 20 hours after applying mains voltage a function test is automatically run (30 sec. The items checked are 'emergency changeover and lamp.
- After a further 4 hours, an automatic 3 hour duration test is run. (If the test button is pressed for 5 sec. before the duration test has ended, the test is aborted.)
- Following the first duration test, regardless of whether or not this was passed, the weekly function test and yearly duration test are automatically started.

Manual Operation

| TEST BUTTON | GREEN LED | STATUS |
|---------------------------------|------------|--------------------------------|
| Press for about 1 second | OFF | Emergency mode for 1 second |
| Press for about 3 seconds | Blinking | Functional test for 30 seconds |
| Press for about 5 seconds | Flashing | Duration test |
| Press again for about 5 seconds | Functional | Interruption of duration test |

Meaning of the indicator LED

| Green | Red |
|---|--|
|  Mains operation No fault |  Duration test failed |
|  Blinking Functional test |  Blinking Lamp / changeover fault |
|  Flashing Duration test |  Flashing Battery / charging fault |
|  Mains failure + Emergency light operation | |

The status display can only be cleared after the fault has been rectified, mains voltage has been reapplied and a function test has been run.

Changing The Rechargeable Battery

If the emergency duration is less than 180 min., the rechargeable battery has to be replaced. Use only original batteries from the manufacturer.

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