

CHANNEL

SAFETY SYSTEMS

Vale



LED emergency exit signage from Channel Safety Systems

CHANNEL SAFETY SYSTEMS

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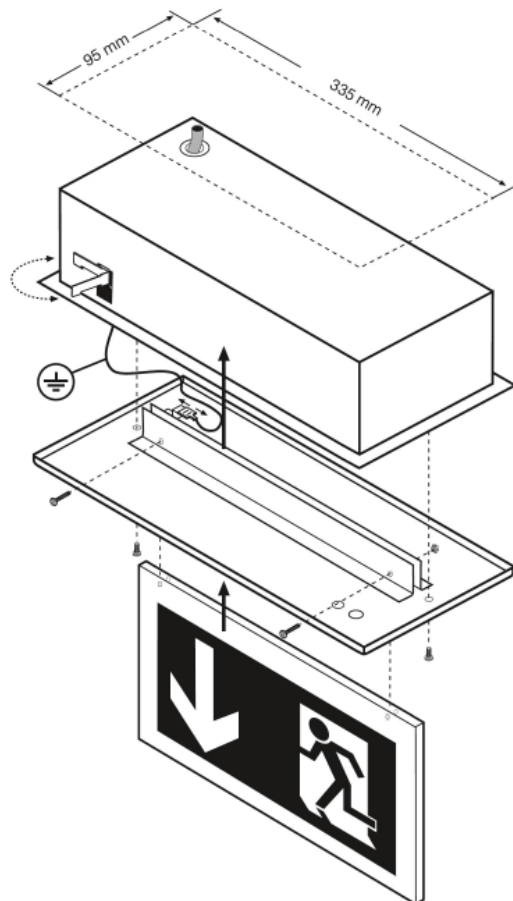
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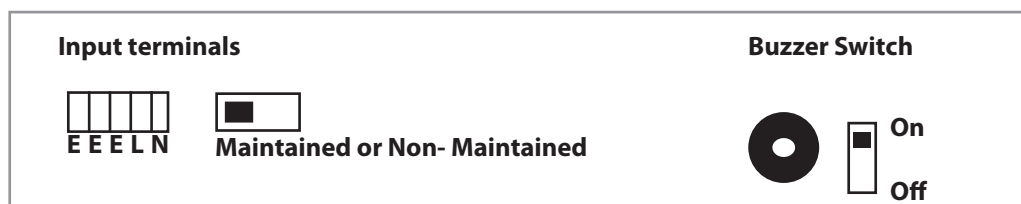
INSTRUCTION MANUAL

INSTALLATION

1. Remove the diffuser from the body by unscrewing the two retaining screws.
2. Fix base ceiling, cut out required 95mm x 335mm. Minimum height clearance 55mm
3. ISOLATE THE A.C. SUPPLY and connect unit. An unswitched 230V A.C. 10% supply must be connected to the local permanent live (L). Earth and neutral (N) terminals on the PCB block. When Maintained operation is required, illumination can be achieved by switching the selection switch to the appropriate position.
4. The battery is pre-connected.
5. Fit the 'legend blade' Refit the & on the Wilmington the white end cap.
6. Operational Check – Restore the A.C. Supply for 30 minutes and then remove. The LEDs should illuminate for at least 10 seconds.
7. Restore the A.C. supply and check that the indicator LED is 'on'.
8. 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)



PCB layout



OPERATION

Maintained Or Non-Maintained Operation

The mode of operation can be chosen using the selection switch. This gives either maintained (LED's always on) or non-maintained operation (LED's off until a power failure).

Buzzer

The fault buzzer may be switched on or off using the buzzer selection switch.

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 unit is designed to carry out self testing in accordance with (EN 62034:2006 3.6), (EN 62034:2006 3.7) & (EN 62034:2006 5.1).

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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