



Canford LED Illuminated Signs

51-0403 CANFORD LED ILLUMINATED SIGN Base fitting, type B

DESCRIPTION

This range of illuminated signs has been designed by Canford for any application where a visually attractive annunciator is required for applications such as broadcast studios, conference suites, medical centres and other architectural uses. The units have the advantage that the illuminated state is clear to see through a viewing angle of 180 degrees. They are intended to be wall mounted with fixed external wiring and must be used with a suitable cover. A range of translucent covers is available.

e.g. 51-0420 Illuminated Sign Red cover, Unprinted

FLASH RATE MODES

Various flash modes are available which are selected via the PCB mount Dip Switch.

Mode	Dip Swt Setting	On Time (mS)	Off Time (mS)
0	0000	160	160
1	0001	320	160
2	0010	480	160
3	0011	640	160
4	0100	320	320
5	0101	640	320
6	0110	960	320
7	0111	1280	320
8	1000	640	640
9	1001	1280	640
10	1010	1920	640
11	1011	2560	640
12	1100	1920	1920
13	1101	1920	1920
14	1110	1920	1920
15*	1111	1920	1920

* Factory Default

The 'FLASH' function takes logical precedence over the 'ON' setting i.e. if the 'FLASH' mode is activated, the unit will flash in the style set up by the dip switch on the PCB, regardless of whether the control input is set for 'ON' operation or not. The control circuit is fully electrically isolated from any mains voltage.

To set the speed of the flash select the desired mode using the 4 way dip switch as shown in the table opposite. Note: 0 - switch off, 1 - switch on

All that is required for external switching control is a voltage free closing contact which connects internally via a 3 way PCB terminal block, see Figure 2.

OPERATION

To operate the illuminated sign, ensure power is being supplied to the unit.

Connecting the 12V terminal to ON terminal will illuminate the sign. Connecting the 12V terminal to the FLASH terminal will cause the sign to flash regardless of the ON status.

INSTALLATION INSTRUCTIONS

The installation should be carried out by appropriately qualified staff.

TURN ELECTRICITY SUPPLY OFF AT MAINS BEFORE INSTALLING OR MAINTAINING THIS LUMINAIRE.

Following unpacking and inspection for damage in transit, the base unit should be dis-assembled, firstly by unscrewing the four posi-drive screws holding the LED assembly/reflector plate, (A), to the base, (B), see Figure 1.



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The attached wiring loom is then disconnected from the base by unplugging the free part, (C), of the mains terminal block. The LED assembly/reflector plate is then laid aside taking care to avoid mis-placing the screws.

The rear cover should be firmly fixed in place, taking care to avoid obstruction of cooling vents, (D), using appropriate fasteners. Fixing holes are provided to match UK (BS 4662), European (DIN) and American flush electrical boxes, as well as UK conduit boxes.

External wiring should be connected, through the entry hole, (E), to the mains terminal block on the base and the control wiring sub board located on the back of the LED assembly, see Figure 2.

NOTE

In the UK the completed installation must comply with “Regulations for electrical installations”, current edition, as published by the Institution of Electrical Engineers.

MAINTENANCE

- 1 Ensure a copy of these instructions are presented to the responsible authority for maintenance.
- 2 LED lamps must only be replaced with the correct part available from Canford Audio.
- 3 Clean diffuser/cover regularly with lukewarm soapy water and dry thoroughly before re-fitting


MATERIALS

Base: Epoxy powder coated Aluminium

LED assembly: Epoxy powder coated Aluminium

WARNING - THIS EQUIPMENT MUST BE EARTHED.
Connect **Live** wire to the terminal marked ‘**L**’

Connect **Neutral** wire to the terminal marked ‘**N**’

Connect Earth wire to the terminal marked 

The unit must be fed from a suitably protected supply with a capacity not exceeding 5 amps.

Note: Uninsulated protective earth wires should be sleeved with green/yellow insulating sleeve.

The LED assembly may now be re-connected and fixed in place on the tray and the chosen cover “hooked” onto the base. The unit should now be ready for use.

TECHNICAL SPECIFICATION

Equipment Type:	Fixed class Luminaire, wall mounted, internal use		
Rated Duty:	Continuous Rated	Rated Max Ambient Temp	40°C
Rated Voltage:	85 – 240v AC	Dimensions: (with Cover)	220mm x 195mm x 140mm (Width x Height x Depth)
Rated Wattage:	15w	Weight, packed:	1Kg approx.
Rated Frequency:	50 - 60Hz		

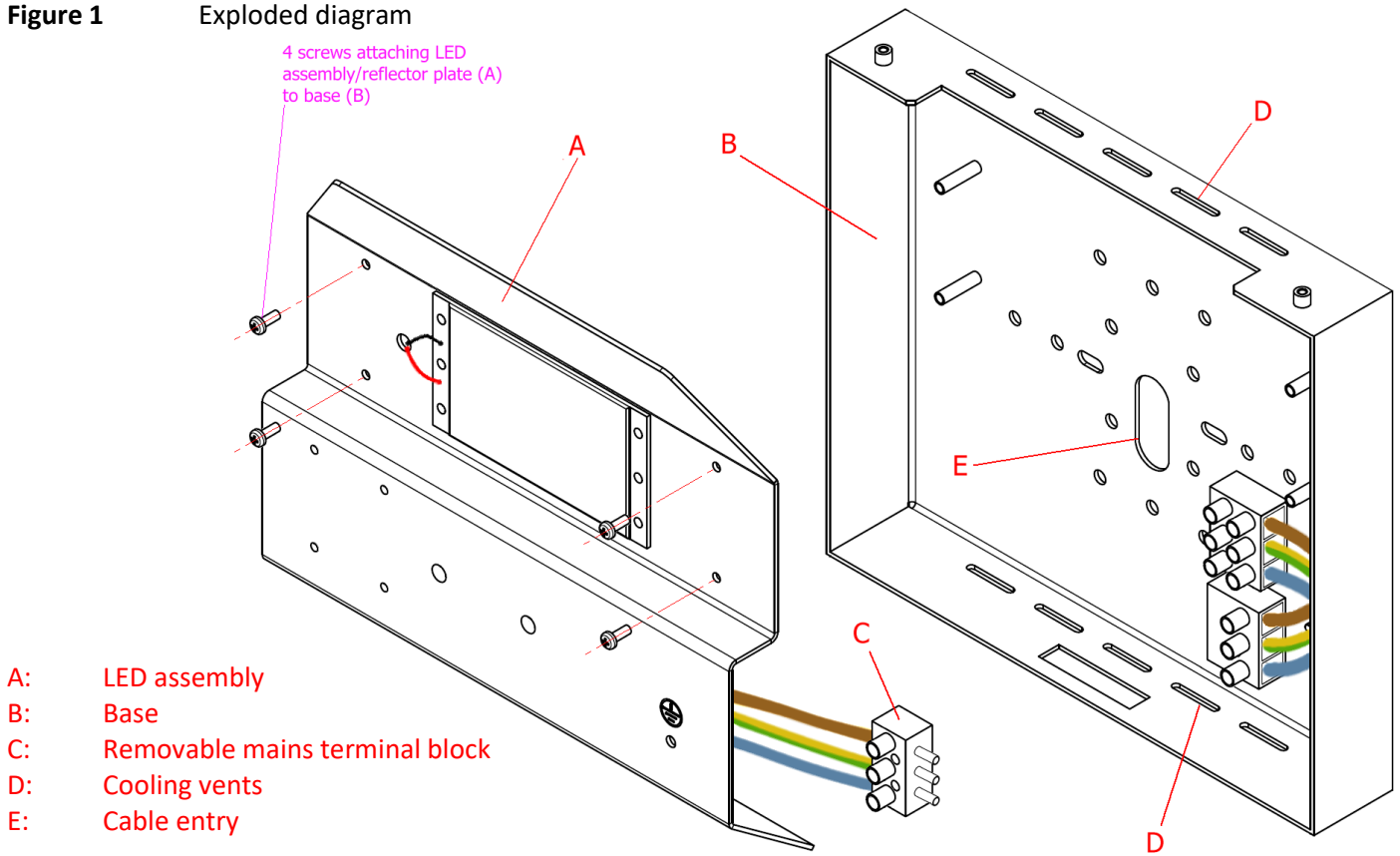


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Figure 1

Exploded diagram

4 screws attaching LED assembly/reflector plate (A) to base (B)



- A: LED assembly
- B: Base
- C: Removable mains terminal block
- D: Cooling vents
- E: Cable entry

Figure 2

Cable connections & component locations

