Horizon Select LED Panel Installation Guide

Version 2.0

IMPORTANT: Please take the time to read this installation guide relating to the following products: ELHSPN/C/19/A and ELH612SPCA Select Panels.
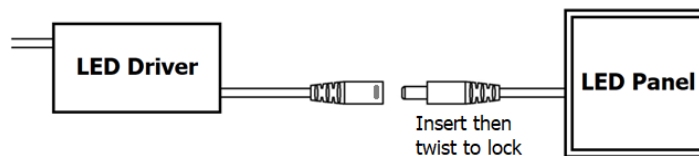
- Inspect the product before installation. If there are any obvious defects do not install and contact your local retailer.
- Always isolate the power before carrying out any work.
- It may be necessary to upgrade your MCB's to allow for the increased inrush of current.
- These products are fitted with a TP(a) rated thermoplastic diffusers and do not have any restrictions (except protected stairways and exits enclosed with fire-resisting construction) and can therefore be used in all areas with no limitation.
- The installation should be carrier out by a qualified electrician and the installation complies with IEE regulation BS7671:2008
- Be mindful of the LED power supply location. Ensure it is a cool, dry location with good airflow. Do not place on top of or below cavity insulation. Doing so will significantly shorten the life and cause a certain failure. Doing so will invalidate your warranty.

In the box:

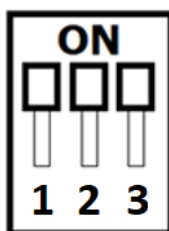1 x LED Panel
1 x LED Driver

Installation

- Isolate mains power.
- Remove the insulation cover and Connect the mains supply to the LED driver (Note the power supply is a Class II double insulated product).
  Live: Brown
  Earth: Green/Yellow
  Neutral: Blue
- Replace and secure the insulation cover.
- Connect the LED Driver to the LED panel via the male/female plugs. Insert and twist to lock and make a secure connection
- Place the LED driver in a safe location ensuring good air flow.
- Restore the mains power and test for satisfactory operation.

Adjusting the brightness:

- The Horizon select panel is pre-set to an equivalent 4 x 18W T8 Tube CAT2 fitting. The brightness can be adjusted higher or lower depending on the environment.
- Isolate the mains power supply.
- Locate the LED driver and remove the insulation cover on the AC mains input.
- You will see three DIP switches. Use the guide on the rear to choose the desired output and adjust the DIP switches with a small flatheaded screwdriver to match the instructions.
- Replace the insulation cover, restore the power to check if the brightness is satisfactory for the environment.
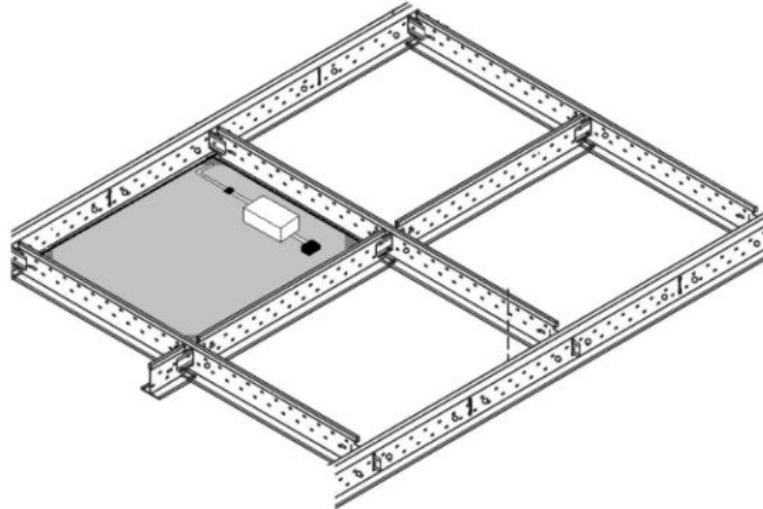
ELHSP(N/C)A

Power	Lumens	mA	Pin 1	Pin 2	Pin 3
40W	4400	1000	ON	ON	ON
38W	4100	950	OFF	ON	ON
35W	3900	900	ON	OFF	ON
32W	3700	850	OFF	OFF	ON
28W	3300	800	ON	ON	OFF
25W	2900	750	OFF	ON	OFF

ELHS612PCA

Power	Lumens	mA	Pin 1	Pin 2	Pin 3
60W	7300	1500	ON	ON	ON
56W	6900	1400	OFF	ON	ON
54W	6700	1350	ON	OFF	ON
52W	6400	1300	ON	ON	OFF
50W	6200	1250	OFF	OFF	ON
48W	6000	1200	OFF	ON	OFF

Installation (False Ceilings):

1) Type of installations
    a. For upgrades of existing installations identify where you wish to locate the LED Panel and carefully remove any ceiling tile or existing fitting.
    b. For new Installations it is recommended to fit the LED Panels before the rest of false ceiling is installed to allow easy access and also the chance to easily relocate should you be unhappy with the light distribution.
2) First wire the supplied LED driver to the mains power supply. (For dimmable connect to the relative control wires and for Emergency versions refer to the Emergency product wiring diagram)
3) Carefully move the LED panel into the ceiling aperture ensuring there is at least a 100mm gap between LED Panel fittings to allow heat to dissipate effectively and connect the LED driver to the Panel.
4) Ensure the panel sits securely within the ceiling grid and that the driver is located to the side of the panel and has adequate ventilation to remain cool.

Accessories (available separately):

Surface mounting trays: To allow fitting to a solid flat wall or ceiling.

Suspension kits: All the LED panels are compatible with ceiling suspension kits. Suspension cable can be easily connected to the four allocated screws on the panels.
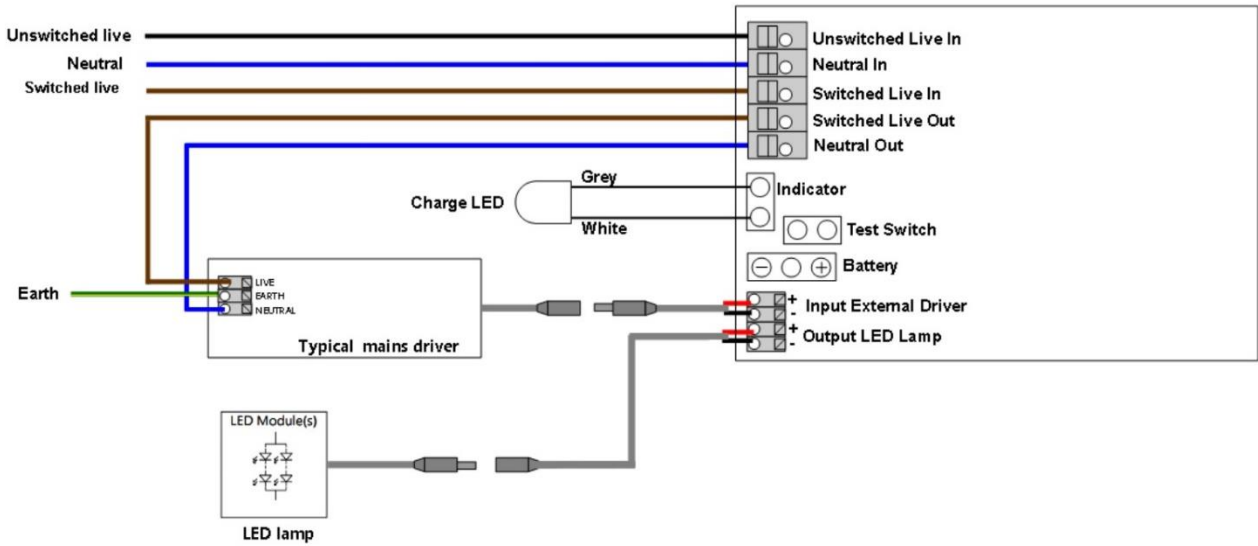
Emergency Kits: To use the fitting as a maintained Emergency Luminaire. Note Lumen output in emergency mode is 300lm for 3 hours of use.

Advice:

Thermal Management: Where LED products are installed with less than 100mm spacing between them, the risk of failure due to inadequate heat management is high and this will invalidate the warranty as per our terms and conditions relating to the correct installation of products. Also ensure there is no insulation covering the product or the LED power supply.

Warranty and Specification: For full specification, extended warranty applications and warranty terms and conditions visit www.novah.co.uk

Emergency Wiring Diagram

Unswitched live	Unswitched Live In
Neutral	Neutral In
Switched live	Switched Live In
	Switched Live Out
	Neutral Out

Charge LED — Grey / White — Indicator

Test Switch

Battery

Earth — Typical mains driver (LIVE / EARTH / NEUTRAL)

– + Input External Driver

– + Output LED Lamp

LED Module(s)

LED lamp

Note: Lamp and driver plug and socket may be opposite gender or different type.
Observe emergency module label information for wiring!

UKCA   CE   RoHS 2011/65/EU