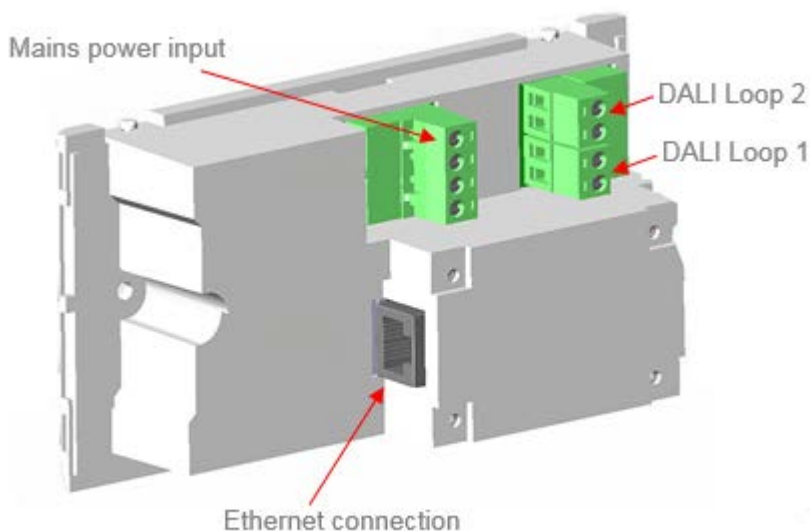# N-Light® CONNECT

Installation Instructions

The N-Light® CONNECT Installation kit consists of the following:

INSTALLATION KIT
1.   Pattress box (surface and recessed)
2.   Control panel
3.   Clip-on fascia
4.   USB to mini USB cable
5.   2 x 25mm M3.5 electrical screws
6.   2 x 2-way DALI connector block
7.   1 x 4-way power connector block

INSTALLATION DATA
RATED VOLTAGE
230V ac

FREQUENCY
50/60Hz

POWER
4.1W

TEMPERATURE RANGE
0 to +50°C

WEIGHT (including pattress)
310g

DIMENSIONS L x H x D
(including housing)
156x92x58mm

PROTECTION RATING
IP20 - Suitable for indoor use
only

CONNECTION DATA
DALI 1 & 2
2-core mains rated 0.5 to
1.5mm^2

POWER
3-core T&E 2.5mm^2

NETWORK
Cat5e Ethernet cable RJ45 to
RJ45

USB
Front facing mini-USB

CONTROL CONNECTIONS
DALI
2 x subnet to DALI slave
devices

POWER CONNECTION
MAINS SUPPLY
Mains power supply protected
at external supply

NETWORK CONNECTION
ETHERNET BACKBONE
RJ45 port to PC or network
switch

Mains power input

DALI Loop 2

DALI Loop 1

Ethernet connection

UK MANUFACTURED

N-Light® CONNECT

Installation Instructions

NOT USED
NEUTRAL
EARTH
LIVE

DALI LOOP 2

DALI LOOP 1

INSTALLATION REQUIREMENTS

1. The panel can be recessed or surface-mounted

2. Dimensions for cavity wall cut-out approx.133mm x 75mm. A depth of at least 47mm is required for a neat fit

3. Typical DALI cable is 2-core 1.5mm^2 mains rated – thinner diameter cable may reduce the maximum wire length

4. DALI wiring topology is line, star or tree (or a combination of these)

5. Maximum distance between panel and furthest device is 300m if 1.5mm^2 cable is used. Cable temperature will have an effect on maximum cable runs

6. DALI subnet maximum 64 slave devices

7. Ethernet connection for networking panels. RJ45 port can be used for direct access or networking panels to a switch

8. Typical Ethernet cable is Cat5e

9. Commissioned by an accredited partner using N-light® software

CAT 5

DALI 1
DALI 2

CAT 5

DALI 1
DALI 2

CAT 5

DALI 1
DALI 2

CAT 5

UK MANUFACTURED 🇬🇧

ICEL

bsi. ISO 9001 Quality Management

bsi. ISO 14001 Environmental Management

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N-Light® CONNECT
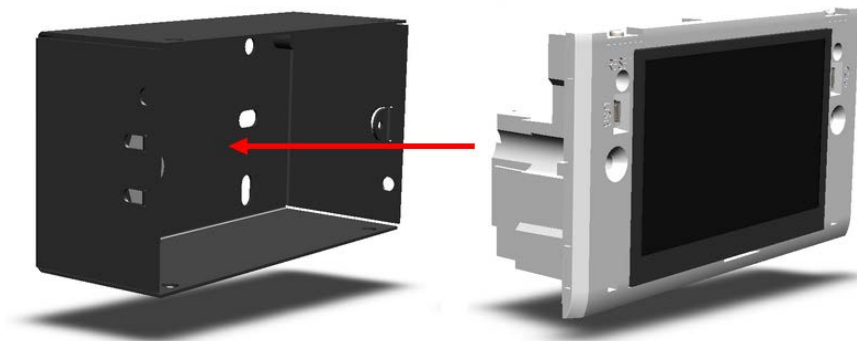
Installation Instructions

INSTALLATION PROCESS

STAGE 1

Prepare recess or conduit for fitment of pattress. Pass the power, network and DALI cables through the pattress and terminate in the 2 x 2-way DALI connector block and the 1 x 4-way power connector block.

STAGE 2

Plug connector blocks into the sockets on the rear of the panel. Plug the network cable into the RJ45 socket. Carefully align the panel with the fixing holes and push into place in the pattress box so that it fits firmly in place.

N-Light® CONNECT

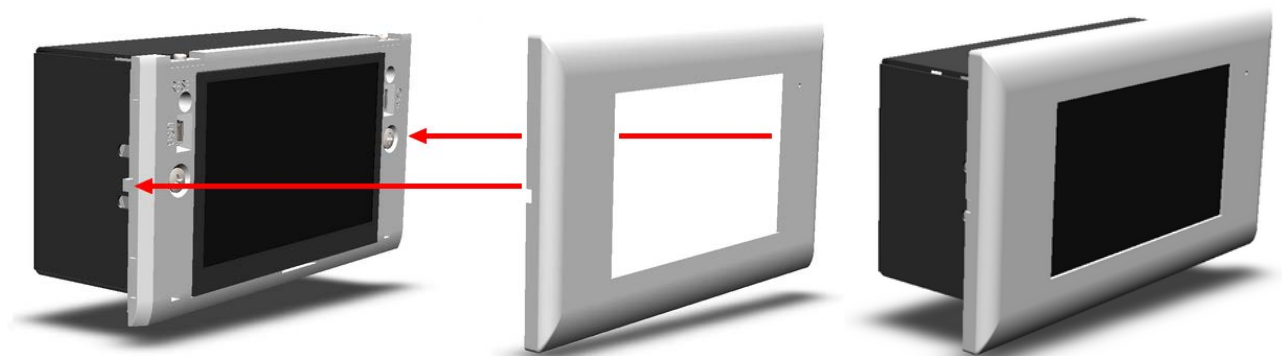## Installation Instructions

STAGE 3

Use the M3.5 screws provided to secure the panel to the pattress box.
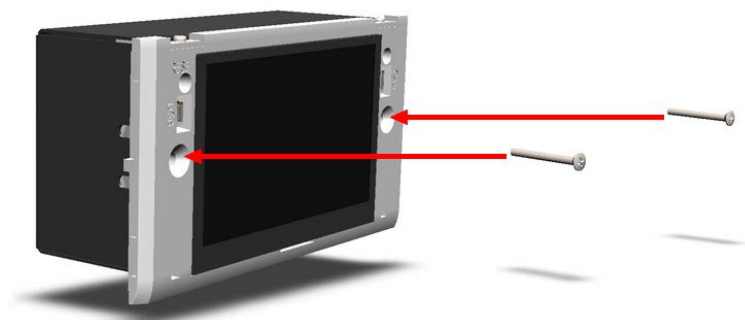
STAGE 4

Clip on the decorative fascia, ensuring that the hole in the fascia is in the top right hand corner.
System installation is complete and ready for commissioning. Please contact Mackwell Support Services.

To prevent unnecessary discharging of emergency batteries, it is recommended that mains power is disconnected after installation and not re-applied until the system is to be commissioned.

DALI COMPATIBILITY NOTE
All Mackwell DALI modules are designed to comply with the DALI Standard EN 62386, for emergency lighting components. Customers who purchase product that incorporates the DALI protocol must accept full system responsibility for the integration of the Mackwell modules into the DALI system and have the experience and resource to accept this responsibility. Please note that product warranty does not extend to cover the system integration process. Please contact Mackwell Support Services on nlight-support@mackwell.com for further information.

UK MANUFACTURED

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