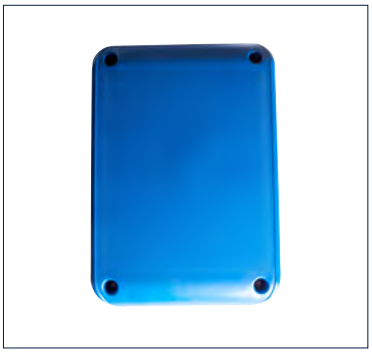
Newlec®

Instructions



This Newlec DALI multi-purpose connection box gives installers maximum flexibility and true freedom in building a DALI system by allowing them to use their own cable without the need for expensive connectors.

PRODUCT RANGE

NEWLEC DALI MULTI-PURPOSE CONNECTION BOX

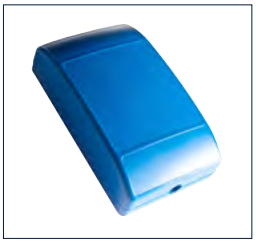
PART NUMBER
NL5713

FEATURES

- DALI Multi-Purpose Connection Box for maximum connection flexibility
- Connects up multiple strings of DALI Occupancy Detectors and lighting
- Maximum 10A rating per box
- 8 Multiple connections per box
- Connects power supply for Newlec DALI network
- Can control LED and fluorescent DALI luminaires

FITTING AND OPERATION INSTRUCTIONS

1. The multi-purpose connection box allows the installer to either use it to connect DALI Occupancy Detectors OR allows them to connect to 10A of lighting loads or both.
2. There are 8 connections per box but one must be used for POWER IN and another for the DALI Power Supply Unit to power the Occupancy Detectors. This leaves 6 connections for either lighting, DALI bus lines or both via either 5 core or 6 core cables of the appropriately sized CSA for your installation.
3. At least one entry point will be used to bring in mains a.c. power and the other for the DALI Power Supply Unit. This unit runs the network power for the DALI Occupancy Detectors and the lighting ballasts.
4. The remaining 6 entry points have 6 connections which if all are used for DALI lighting only will only utilise the 5 cores; Permanent Live, Earth, Neutral and the DALI BUS line pair.
5. The Switch Live is only used when there is a need to connect some non-DALI lighting thereby increasing the flexibility of the multi-purpose connection box for the installer.
6. When using Emergency Lighting it gives flexibility to wire the permanent and switch lives as appropriate.
7. As with any DALI network we recommend that all parts of system are accessible for maintenance.



PRODUCT RANGE

NEWLEC DALI POWER SUPPLY UNIT

PART NUMBER
NL5712

FEATURES

- For use with Newlec DALI Network System
- Powers DALI network of Occupancy Detectors and lighting ballasts
- Thermal and overload protection
- Connected to multi-purpose connection box (NL5713)

FITTING AND OPERATION INSTRUCTIONS

This is essential to power the network of DALI Occupancy Detectors and DALI luminaire ballasts connected into the system.

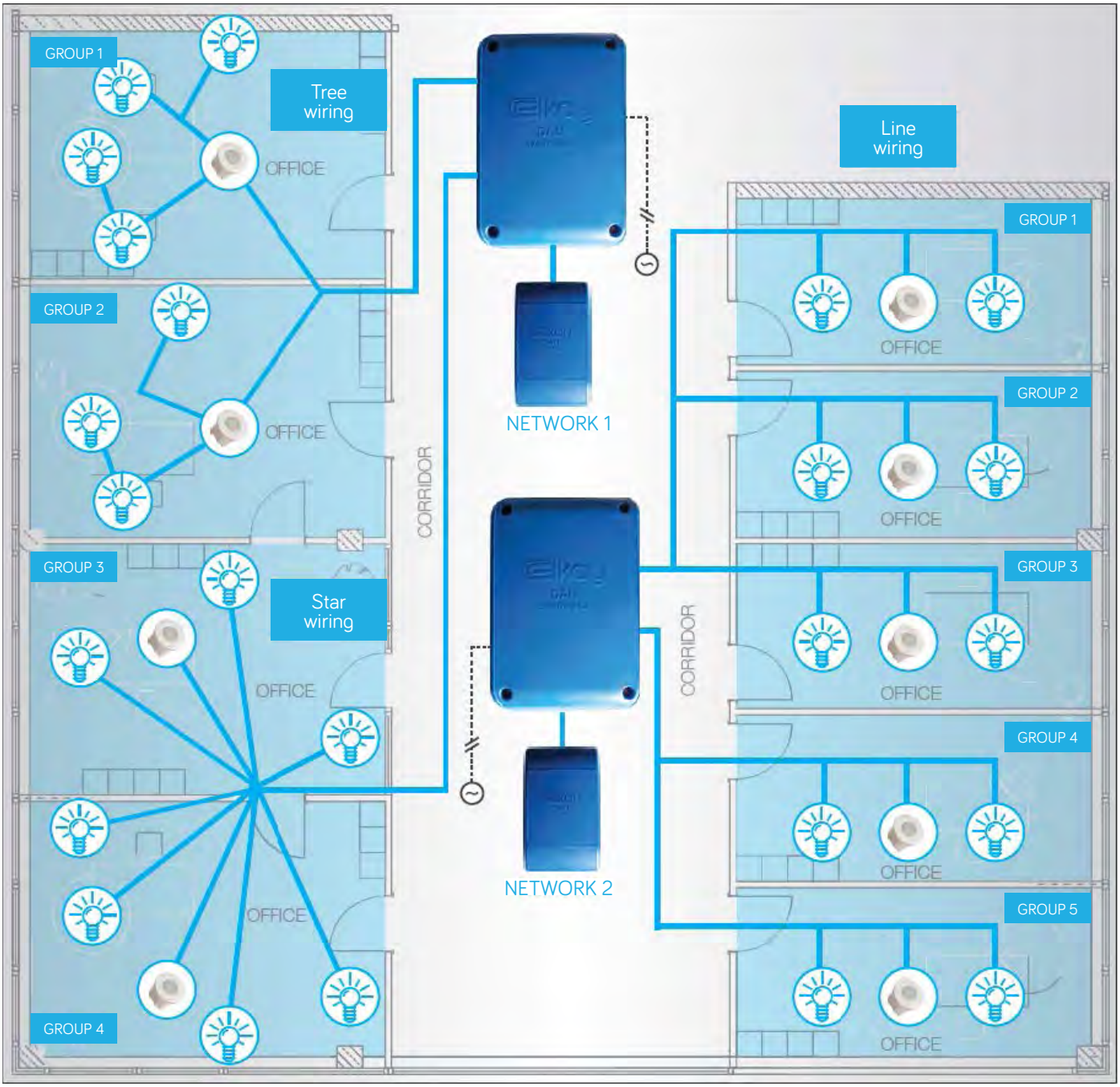
1. One power supply is needed for each separate network. You can either utilise a new Power Supply Unit for each network or ONE power supply for a larger network with the DALI Occupancy Detectors dividing the lighting ballasts into groups.
2. The DALI Power Supply Unit provides the low d.c. power used to power the network. The power supply has in-built thermal and overload protection.
3. The Power Supply Unit needs just a standard 5 core cable to connect it to the Multi-Purpose Connection Box with connections to the Live, Neutral, Earth and DALI BUS line terminals
4. At least one entry point will be used to bring in mains a.c. power and the other for the DALI Power Supply Unit. The power supply unit runs the network power for the DALI Occupancy Detectors and the lighting ballasts.

IMPORTANT NOTICE

All wiring should be carried out by a competent person or a qualified electrician and should be fitted to IEE Wiring regulations BS7671.
The circuit should be isolated before carrying out any work. Failure to adhere to the instructions will invalidate the warranty.

EXAMPLES OF WIRING DIAGRAM USING THE NEWLEC DALI MULTI-PURPOSE CONNECTION BOX

1. Two networks each shown with their own Power Supply Unit.
2. Each new Power Supply Unit starts a new network.
3. Each box connects to the DALI Power Supply Unit and routes bus lines and lighting cabling.
4. Allows full connectivity of the lighting system and the DALI network.



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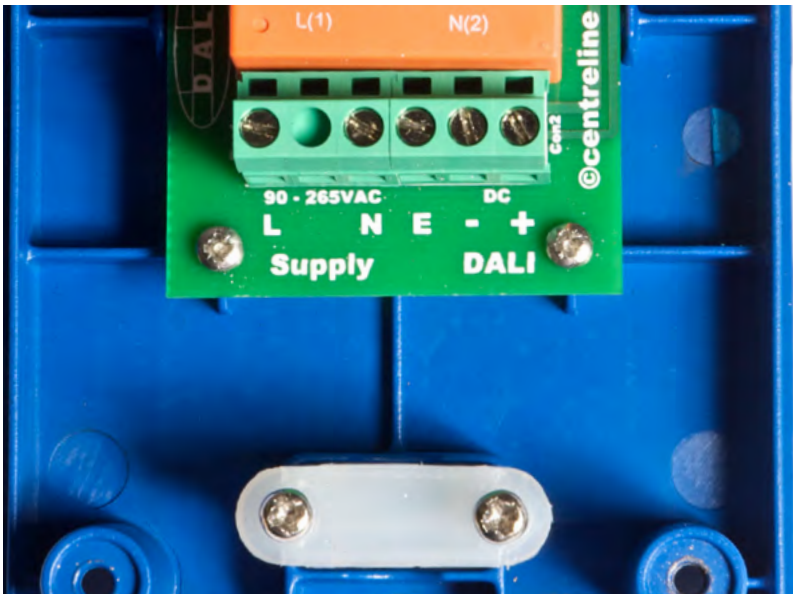
HOW TO CONNECT THE NEWLEC DALI POWER SUPPLY UNIT TO THE MULTI-PURPOSE CONNECTION BOX

D	DALI BUS LINE
D	DALI BUS LINE
PL	Permanent Live for DALI
SL	Switch Live for NON DALI Applications
E	Earth or Ground connection
N	Neutral Connection



D	DALI BUS LINE
D	DALI BUS LINE
E	Earth or Ground connection
N	Neutral Connection
BLANK	No terminal
L	Permanent Live for DALI

IMPORTANT NOTICE

We recommend that you READ all the instructions before commencing installation. Once you have read the instructions and product advice sheets then you will be prepared for every DALI installation in the future. All wiring should be carried out by a competent person or qualified electrician and be fitted to current IEE Edition wiring regulations.

IMPORTANT NOTICE

All wiring should be carried out by a competent person or a qualified electrician and should be fitted to IEE Wiring regulations BS7671.
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Newlec®

Instructions

NEWLEC DALI NETWORK SOLUTION OVERVIEW

The Newlec DALI network solution has been designed to make installation and set-up of a Newlec DALI system quicker and easier for installers. With the increasing energy saving requirements to cut emissions and energy bills for consumers and businesses alike, Newlec's DALI network solution is here to meet these demands.

Newlec have achieved this by making the first range of sensors that can automatically configure DALI lighting ballasts, as well as the more commonly used broadcast mode. The system provides presence and absence detection and delivers daylight harvesting to ensure maximum energy efficiency. The Newlec DALI Occupancy Detector is a presence, absence and daylight harvesting sensor all rolled into one.

In a brand new 'out of the box' installation of new DALI luminaires and with a new Newlec DALI Occupancy Detector, you can simply wire the lighting, the Power Supply Unit and the Occupancy Detector together with the Multi-Purpose Connection Box and simply accept the default settings of…..

- Broadcast mode
- Timing
- Daylight Harvesting

…and the Occupancy Detector with just a few pushes of the remote control will find and address all luminaires control gear on the network and the installation is complete.
With just a few more button selections on the Occupancy Detector and the remote controller, the product can easily set up groups and scenes as well as corridor modes, additional timing modes and the Occupancy Detector will also automatically daylight harvest to maximise energy savings.
Unlike some manufacturers systems Newlec's DALI Occupancy Detector sensors can be wired to control their own set of luminaires using in built DALI group functions to give control by group and not just by broadcast alone.

The complete Newlec DALI network solution is provided with just four elements

	Newlec DALI Occupancy Detector	Newlec DALI Dual Purpose Remote Control	Newlec DALI Power Supply Unit	Newlec DALI multi-purpose connection box
Image				
Part No.	NL5701DALI	NL5711	NL5712	NL5713
Features	• Presence and Absence Detection • Automatic Daylight Harvesting • Default Timing Modes • Broadcast and Group Functions • Room & Corridor Mode • Manual Lux Level and Sensitivity Control • Coloured Feedback LEDs • Walk Test	• Dual Purpose control options for End user and Installers • Sets all non-default functions • Sets Timing Room Modes and Corridor Modes • Sets Min Arc Levels • 25%, 50% and 100% brightness pre sets • Override Functions • Remote Lux Control • Remote Feedback LEDs • 3 x AAA Batteries supplied	• 18V d.c. 250mA • Connects to Multi-Purpose Connection Box • Essential to supply power to DALI network	• 10A Max for Lighting loads • Connects Lighting (ALL TYPES) and DALI network • Connects Power Supply

IMPORTANT NOTICE

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