

INSTALLER INSTRUCTIONS

The Newlec DALI Remote Control consists of eight soft touch buttons to control the Newlec DALI Occupancy Detector (NL5701DALI). It can program basic installation and commissioning functionality and has one hidden button that changes the remote control from user mode to Installer Mode. Installer Mode is detailed below but for End User Modes see separate 'End User Instructions'.

INSTALLER MODES

HOW TO PROGRAM YOUR NEWLEC DALI NETWORK SYSTEM

In Installer Mode it is possible to control the timing options and also select Room and Corridor Options

- Open battery cover at rear and remove plastic tab from battery area to enable the remote
- You must turn lights OFF with the remote first to operate and program in this mode
- To begin installer mode, remove battery cover at rear and place pin in hole and press once. Once feedback light goes **RED** you are in Installer Mode
- Installer Mode information should never be given to End users of the system

PRODUCT RANGE

NEWLEC DALI REMOTE CONTROL

PART NUMBER

NL5711

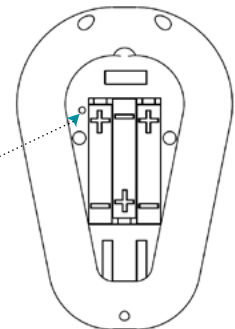


FEATURES

- Dual purpose DALI Remote Control
- For use with Newlec DALI network system
- User mode for day to day control
- Installer mode for installation set up

Newlec DALI Remote Control Instructions must be read in conjunction with Newlec DALI Occupancy Detector (NL5701DALI) Instructions in order to enable all features of the Occupancy Detector.

REMOTE CONTROL REAR VIEW



SMALL HOLE

(Hidden Installer Button)

INSTALLER MODE ONLY

E. Override ON/OFF Button

SET GROUP

D. Minimum Arc Power Adjustment
Sets the minimum level the harvester will not go below

YES

NO

1. Add group to pre-addressed luminaires

2. Find pre-addressed luminaires or address new uncommitted luminaires

A. Feedback LED -

Continuous **RED** in Installer Option

B. SET Button

For walk test

C. Mode Options Up and Mode Options DOWN

Setting Room and Corridor Timing Options

4. Reset to Manual controls

3. Update all discovered luminaires of the current group with 16 pre-set levels as scenes. 16 Green flashes per ballast then a blue flash to indicate complete



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.

FITTING AND OPERATION INSTRUCTIONS

A. FEEDBACK LED - Continuous RED light for 3 minutes (after last button push). It will then revert back to End User mode.

B. SET BUTTON - Initiates Walk Test only in Installer Mode.

Walk test can be used to test and setup the Newlec DALI Occupancy Detector sensitivity by moving in & out of the Occupancy Detector detection range. The signal LED on the Occupancy Detector indicates presence by flashing blue and can be used as a basic walk test. During walk test detection the luminaires will be illuminated to full brightness then after a short delay with no presence detection the luminaires will dim but not go off. (See Walk Test).

C. MODE UP AND MODE DOWN - Setting Room and Corridor Timing Options

- The product is pre-set to a factory default
- Room option 20 minutes on
- Dim to Min Level 10 minutes
- Off

TO SET THE ROOM, CORRIDOR AND TIMING OPTIONS

- a) Open battery cover at rear and remove paper tab from battery area to enable the remote.
- b) You must turn lights OFF with the remote first to operate and program in this mode. To do this, point the remote control at the Newlec DALI Occupancy Detector & press the override off button. While in override off the Occupancy Detector LED flashes white.
- c) To begin installer mode, remove battery cover at rear and place pin in hole and press once. Once feed back light goes RED you have initiated the Installation Option on the remote.
- d) You will automatically be in the DEFAULT mode of Room Mode 6, which gives 20 minutes ON with 10 minutes dimmed and then switches off (if no presence detected) This is highlighted in Table 1.
- e) By pressing the MODE button + UP and - DOWN you will scroll through the room and corridor modes. When you push the button UP or DOWN you should press once only and observe and count the coloured flashes on the Occupancy Detector. The number and colour of flashes corresponds to the Room Timing or the Corridor Timing Options shown in Table 1. Corridor Options flash RED on the Occupancy Detector and Room Modes flash GREEN on the Detector. For example, press the MODE button + once and the Occupancy Detector will flash GREEN four times indicating it is now in Room Option 5. To go back to the DEFAULT setting press the MODE button - once and the Occupancy Detector will flash GREEN 3 times returning the Occupancy Detector to the default setting. Scrolling up or down one press at a time moves you through the options in Table 1.

TABLE 1 Timing Options selectable in Installer Mode from the Remote Control

Corridor Option	ON	DIM	OFF	Number of Occupancy Detector Colour Flashes	Mode UP and DOWN
1	30min	Yes 10%	No	●●●●	
2	20min	Yes 10%	No	●●●	
3	10min	Yes 10%	No	●●	
4	5min	Yes 10%	No	●	
Room Option	ON	DIM	OFF	Number of Occupancy Detector Colour Flashes	Mode UP and DOWN
5	30min	15min	Yes	●●●●	
6	20min	10min	Yes	●●●	PRE-SET FACTORY DEFAULT
7	10min	5min	Yes	●●	
8	5min	5min	Yes	●	



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CORRIDOR OPTION

When selecting Corridor Option lights never go off, they will just dim to the selected minimum arc power. In Corridor Option all end user remote control functions are disabled except override off. In corridor option the luminaires will be illuminated to full brightness while presence is detected. When presence is no longer detected the luminaires will be dimmed after a preset time. The luminaires will remain dimmed until presence is again detected.

CORRIDOR SHUTDOWN OPTION

For Facility managers, caretakers and building maintenance teams, there is the ability to turn off corridor mode completely by pressing the on/off button in Corridor Option which will dim lights to 10% for 10 minutes and then OFF. This may be useful for factory shutdowns or when office space will be empty for a long period.

- **BUTTON 4** - reverts to manual lux control on the Occupancy Detector. The potentiometer marked is  the lux pot located underneath the bezel fascia.
- **BUTTON 3** - starts the 'Updates all discovered luminaires with Scenes' function.
- **BUTTON 2** - starts the 'Find pre-addressed luminaires or address new uncommitted luminaires' function.
- **BUTTON 1** - starts the 'Add group to pre-addressed luminaires' function.

D. MINIMUM ARC POWER ADJUSTMENT - the brightness up and down buttons set the minimum illumination level the Occupancy Detector will allow. When in Installer Option the first press of the up or down buttons turns the luminaires on at the currently set minimum brightness. Subsequent presses will increase or decrease the stored value.

Some luminaires such as fluorescents cannot go below a fixed illumination point so setting the minimum below this will slow the response of the harvester at low illumination levels. This level should be set so it is just perceptible the illumination is starting to increase on all luminaires.

E. OVERRIDE OFF BUTTON - When pushed in Installer Mode the luminaires will stay off even after a power failure or until the override off button is pressed once more. While in override off the signal LED on the Occupancy Detector will flash white. Only Occupancy Detectors that have been turned to off or hibernate (signal LED flashing white) will accept installer commands.

WALK TEST

Walk test can be used to test and setup the Newlec DALI Occupancy Detector sensitivity by moving in and out of the Occupancy Detector detection range. The signal LED on the Occupancy Detector indicates presence by flashing blue and can be used as a basic walk test. During walk test detection the luminaires will be illuminated to full brightness then after 10 seconds with no presence detected the luminaires will dim but not go off.

To put the Newlec DALI Occupancy Detector into walk test:

1. You must turn lights OFF using the remote first to operate and program in this mode. To do this, point the remote control at the Newlec DALI Occupancy Detector & press the override off button. While in override off the Occupancy Detector LED flashes white.
2. Set the remote control to installer mode by pressing the hidden installer button inside the battery compartment, the remote control LED illuminates red.
3. Point the remote control at the Occupancy Detector & press the 'Set' button, this will initiate luminaire walk test mode.
4. The LED on the Occupancy Detector will be illuminated blue while presence is detected and the luminaires will be set to full brightness. The Occupancy Detector will also flash red and green to indicate walk test mode is initiated.
5. Leaving the Occupancy Detector detection zone for more than 10 seconds is indicated by the luminaires being dimmed & the LED on the detector being extinguished.

Walk test mode will be exited after 10 minutes or by pointing the remote at the Newlec DALI Occupancy Detector and pressing any remote control button. When the walk test is completed point the remote at the Occupancy Detector & press the override off button to return to normal. The remote control will automatically exit install mode after approximately 2 minutes from the last button press or can be taken out of installer mode immediately by re-pressing the hidden installer button.

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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	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 18V d.c. 250mA • Connects to Multi-Purpose Connection Box • Essential to supply power to DALI network 	<ul style="list-style-type: none"> • 10A Max for Lighting loads • Connects Lighting (ALL TYPES) and DALI network • Connects Power Supply

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WHAT IS DAYLIGHT HARVESTING?

Daylight harvesting simply means that the Newlec DALI Occupancy Detector takes account of how much natural light is available and increases or decreases the brightness of the lighting that you require in your room or zone. As a result, you use less power, save energy and reduce your lighting costs.



FITTING AND OPERATION INSTRUCTIONS

1. **FEEDBACK LED** - Green when button is pushed to indicate Occupancy Detector remote buttons have been pushed.
2. **SET BUTTON** - Saves changes made.
 - A. The set button is used to store the harvesting illumination level when in room option. If the illumination has been changed temporarily for some reason the preset level will be restored the next time the luminaires are turned on or the harvester state is reset. Pressing the set button sets the current illumination level as the preset for the harvester.
3. **DALI SCENE CONTROL** - 16 levels of pre-set brightness to enable you to select precise level of required brightness from luminaire. The scene up and down buttons step through the stored scene information of the ballasts within the luminaires. If the luminaires have no scene information these buttons have no function but will halt the harvester. To return to harvesting press the 'Reset to Automatic Daylight Harvesting' button.
4. **100% INSTANT BRIGHTNESS**
5. **50% INSTANT BRIGHTNESS**
6. **25% INSTANT BRIGHTNESS**
7. **RESET TO AUTOMATIC DAYLIGHT HARVESTING**
8. **LUX LEVEL CONTROL** - This enables you to set the required lux level in the room. The amount of internal light combined with external daylight is measured by the Occupancy Detector. to produce the required output of brightness at the luminaire in the room. The lux button on the Remote Control can be used to set the exact lux level that lights will operate at and set the daylight harvesting level. To avoid inconvenient flashing in this mode, there is a time delay around the light level set to avoid lights coming on and off when the light level is close to or equal to the lux level set.
9. **ON/OFF BUTTON** - On and off button and override off. The luminaires will be turned off for a pre-set period then harvesting mode will be restored. If presence is detected the luminaires will be turned on but otherwise stay off. While in override off the signal LED on the Occupancy Detector will flash white. Pressing override off again will restore the Newlec Occupancy Detector to harvesting.

PLEASE GIVE THESE INSTRUCTIONS TO DAY TO DAY END USER OF THE SYSTEM.

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