




## iLight Solo Solutions Guide

With the LCC-10 Lighting Connection Centre



# iLight Solo Solutions Guide



iLight Solo is a cost effective control solution for simple stand alone DALI applications where fast installation and minimal commissioning is required.

At the heart of the Solo system is the LCC-10 Lighting Connection Centre, which is complimented by a range of sensors, connecting leads and plugs for a complete solution.

LCC10 can also be used alongside iLight SCMD2 and SCMD4 fully addressable DALI controllers providing a fast, 'plug & play' method of deploying luminaires, sensors and control plates within a building-wide lighting control network.

Each application within this document includes an equipment list, making the products easy to specify and order.

## DALI Dimming Applications

### Application 1 - Page 4-5

DALI, presence detection with adjustable on/off levels – Ideal for areas where the lights never switch off.

### Application 2 - Page 6-7

DALI, absence detection and maintained illuminance – For small cellular offices and meeting rooms with natural daylight.

### Application 3 - Page 8-9

DALI, absence detection across two rooms - Ideal for cellular offices & meeting rooms.

### Application 4 - Page 10-11

DALI, presence detection with a set back and off level - For areas such as WCs, staircases and internal corridors where the light level dims down before switching off.

### Application 5 - Page 12-13

Switch Dim/Touch Dim – For rooms where dimming is required, with no occupancy control.

### Application 6 - Page 14-15

A mixture of DALI & switch output luminaires - For projects where DALI and non-dimmable luminaires are installed in the same room.

## Further Resources

View our full range of Solo Sensors here:



## Non-Dimmable Applications

### Application 7 - Page 16-17

Presence detection non-dimmable – Ideal for WCs, lobby areas, store-rooms and internal corridors.

### Application 8 - Page 18-19

Absence detection on/off – Internal small cellular offices and meeting rooms with no natural daylight, where the user would like a manual switch for control of their luminaires.

### Application 9 - Page 20-21

Absence detection across two rooms - Internal small cellular offices and meeting rooms with no natural light.

### Application 10 - Page 22-23

Locally switched with no controls - Suited for areas where lighting control would not be required such as disabled toilets & dark rooms but pluggable connection of luminaires is required.

View our full range of Wiring Accessories here:



## Emergency Applications

### Application 11 - Page 24-25

Key switch emergency test - Can be initiated at the distribution board or locally in the rooms.

### Application 12 - Page 26-27

Dual supply - Required where the project has specified a UPS system, with no dimming.

### Application 13 - Page 28-29

Dual supply with DALI - This application would be applied when DALI luminaire are installed, with a back up central battery or generator system, mostly used in healthcare applications DALI and non-dimmable luminaires are installed in the same room.

## Quick Start Commissioning

### HHIR-LCD-PROG - Page 30-33

IR LCD handset programming guide

### HHIR-PROG - Page 33

IR handset programming

## DALI Dimming - Application 1

DALI, presence detection with adjustable on/off levels

An occupancy sensor is programmed to switch the lighting on at full brightness when presence is detected and the space occupied. When the space is unoccupied, the lighting level will dim down, the level can be configured to suit and set with the hand-held programmer.

This is ideal for areas where the lights never need switch off and a safe environment with some level of luminance is required.

- Hotel corridors
- Care home corridors
- Nurse Stations
- General circulation spaces
- High security areas



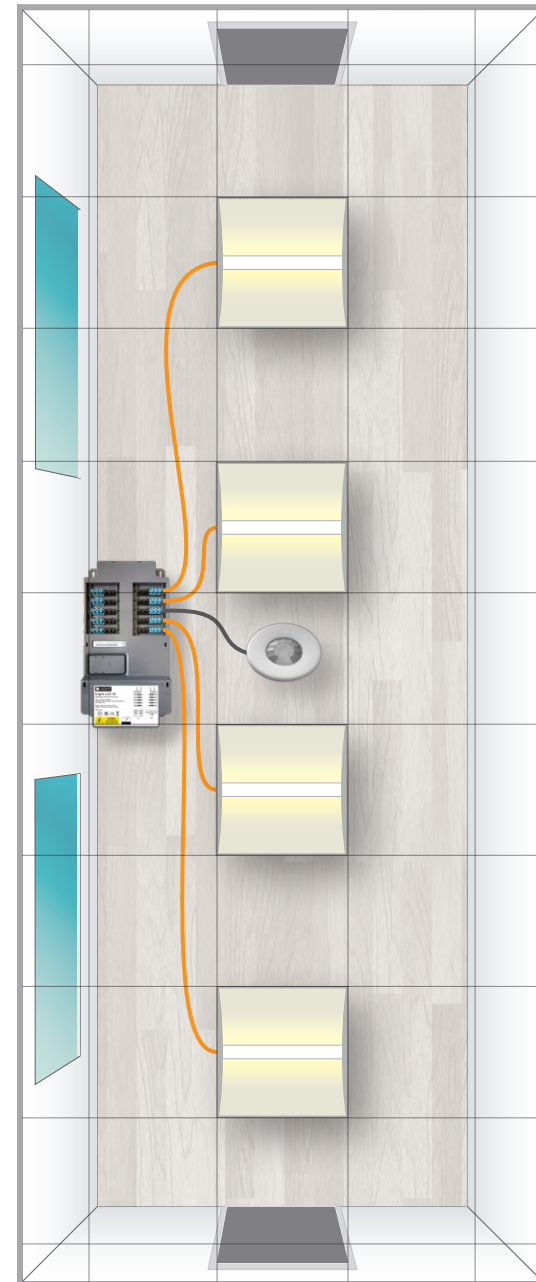
Hotels



Care Homes

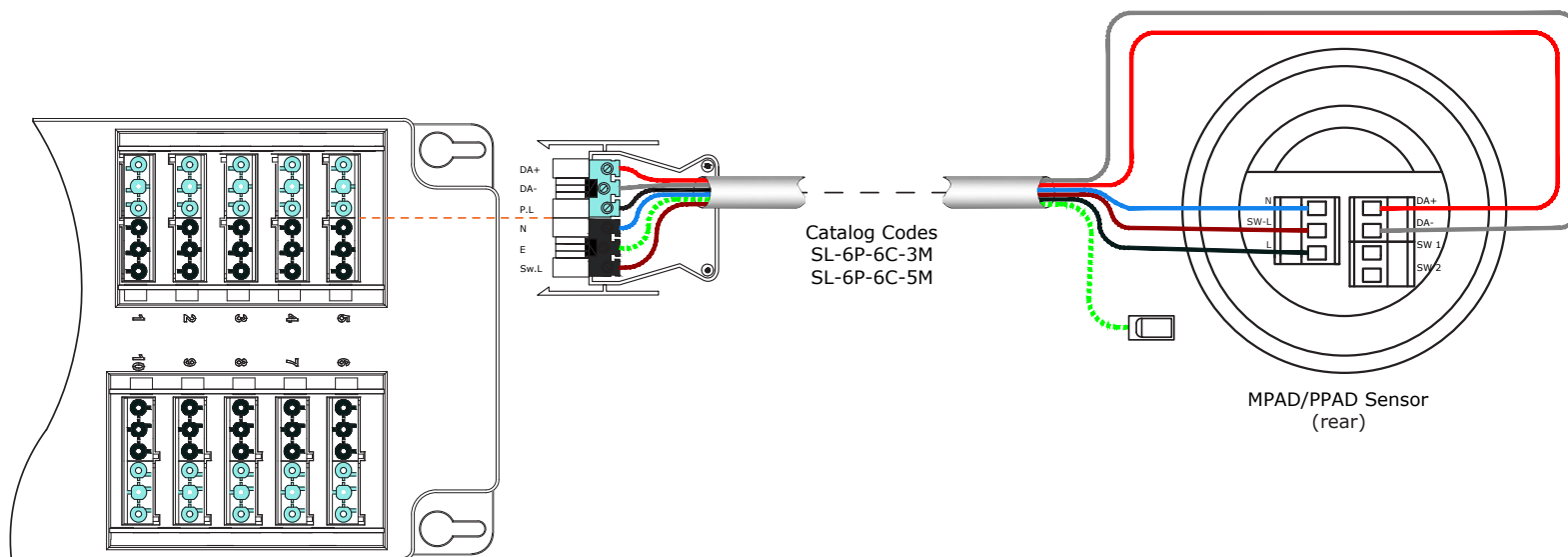


Healthcare



# DALI Dimming - Application 1

## Connection Wiring Diagram



Output 1-10 - Dimmed

## iLight Equipment List

Part Number	Description
LCC-10	10 Output - 6-Pole - Lighting Connection Centre
PPAD-C-DALI-230V	PIR - Presence/Absence DALI Dim & 230V Switching
MPAD-C-A-DALI-230V	Microwave - Presence/Absence DALI Dim & 230V Switching - Adjustable
LUPX-6P-5C-3M	6-pole Luminaire Lead - 5-core 3 metre - Plug to Open Ends 1.0mm <sup>2</sup> cable
LUPX-6P-5C-5M	6-pole Luminaire Lead - 5-core 5 metre - Plug to Open Ends 1.0mm <sup>2</sup> cable
LUPX-6PR-6C-3M	6-pole Luminaire Lead - 6-core 3 metre - Plug to Open Ends - Red Connector 1.0mm <sup>2</sup>
LUPX-6PR-6C-5M	6-pole Luminaire Lead - 6-core 5 metre - Plug to Open Ends - Red Connector 1.0mm <sup>2</sup>
SL-6P-5C-3M	Sensor Lead - 5-core 3 metre Male - Plug to Phoenix Connectors to suit P/MPAD (Dimming Applications)
SL-6P-5C-5M	Sensor Lead - 5-core 5 metre Male - Plug to Phoenix Connectors to suit P/MPAD (Dimming Applications)
HHIR-LCD-PROG	Infrared Programming Handset with LCD display
HHIR-PROG	Infrared Programming Handset

## DALI Dimming - Application 2

DALI, absence detection and maintained illuminance

A dual position retractable switch provides manual dimming and enables the user to control their lighting levels.

An occupancy sensor is programmed to provide absence detection ensuring the lights switch off when the room is unoccupied.

- Meeting rooms
- Cellular offices
- Small receptions
- Patient rooms
- Doctors surgeries
- Laboratories



Offices



Healthcare



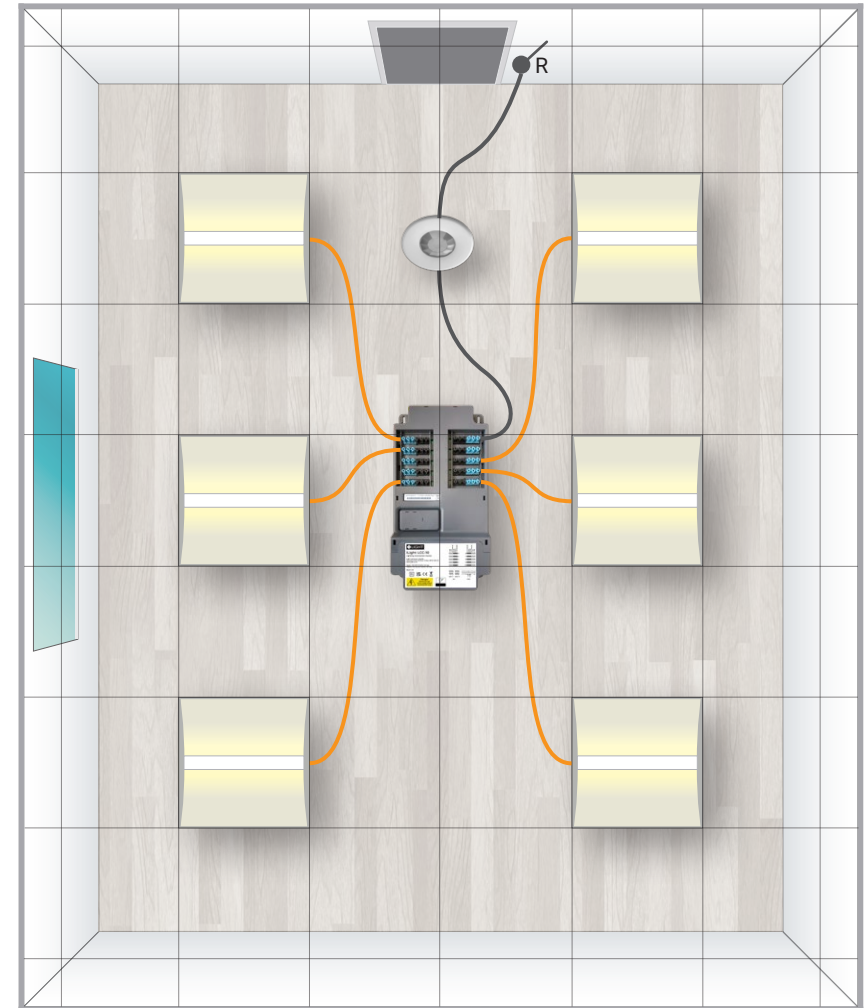
Veterinary



Education

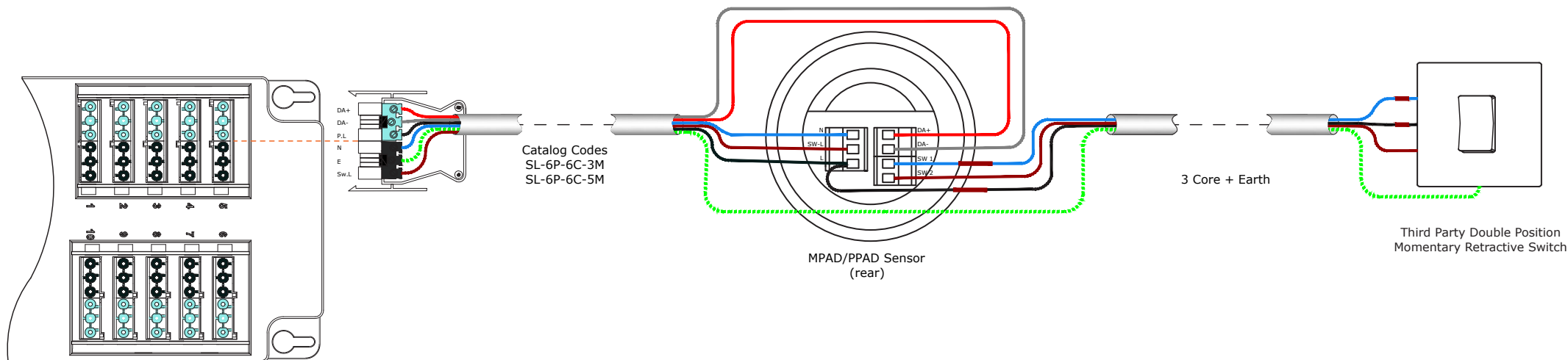


Research

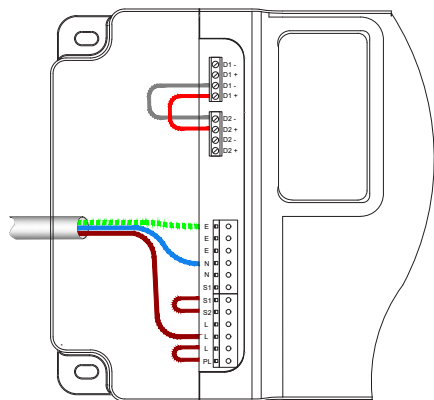


# DALI Dimming - Application 2

## Connection Wiring Diagram



Output 1-10 - Switched/Dimmed



Pluggable Sensor arrangement

## iLight Equipment List

Part Number	Description
LCC-10	10 Output - 6-Pole - Lighting Connection Centre
PPAD-C-DALI-230V	PIR - Presence/Absence DALI Dim & 230V Switching
MPAD-C-A-DALI-230V	Microwave - Presence/Absence DALI Dim & 230V Switching - Adjustable
LUPX-6P-5C-3M	6-pole Luminaire Lead - 5-core 3 metre - Plug to Open Ends 1.0mm <sup>2</sup> cable
LUPX-6P-5C-5M	6-pole Luminaire Lead - 5-core 5 metre - Plug to Open Ends 1.0mm <sup>2</sup> cable
LUPX-6PR-6C-3M	6-pole Luminaire Lead - 6-core 3 metre - Plug to Open Ends - Red Connector 1.0mm <sup>2</sup>
LUPX-6PR-6C-5M	6-pole Luminaire Lead - 6-core 5 metre - Plug to Open Ends - Red Connector 1.0mm <sup>2</sup>
SL-6P-5C-3M	Sensor Lead - 5-core 3 metre Male - Plug to Phoenix Connectors to suit P/MPAD (Dimming Applications)
SL-6P-5C-5M	Sensor Lead - 5-core 5 metre Male - Plug to Phoenix Connectors to suit P/MPAD (Dimming Applications)
HHIR-LCD-PROG	Infrared Programming Handset with LCD display
HHIR-PROG	Infrared Programming Handset

## DALI Dimming - Application 3

### DALI and absence detection across two rooms

Dual position retractable switches provides manual dimming and enable the user to control their lighting levels.

An occupancy sensor in each space is programmed to provide absence detection ensuring the lights switch off when the room is unoccupied.

The LCC-10 supports two channels of control and the independent dimming and switching of two groups of five outputs.

- Meeting rooms
- Cellular offices
- Small receptions
- Patient rooms
- Doctors surgeries
- Laboratories



Offices



Healthcare



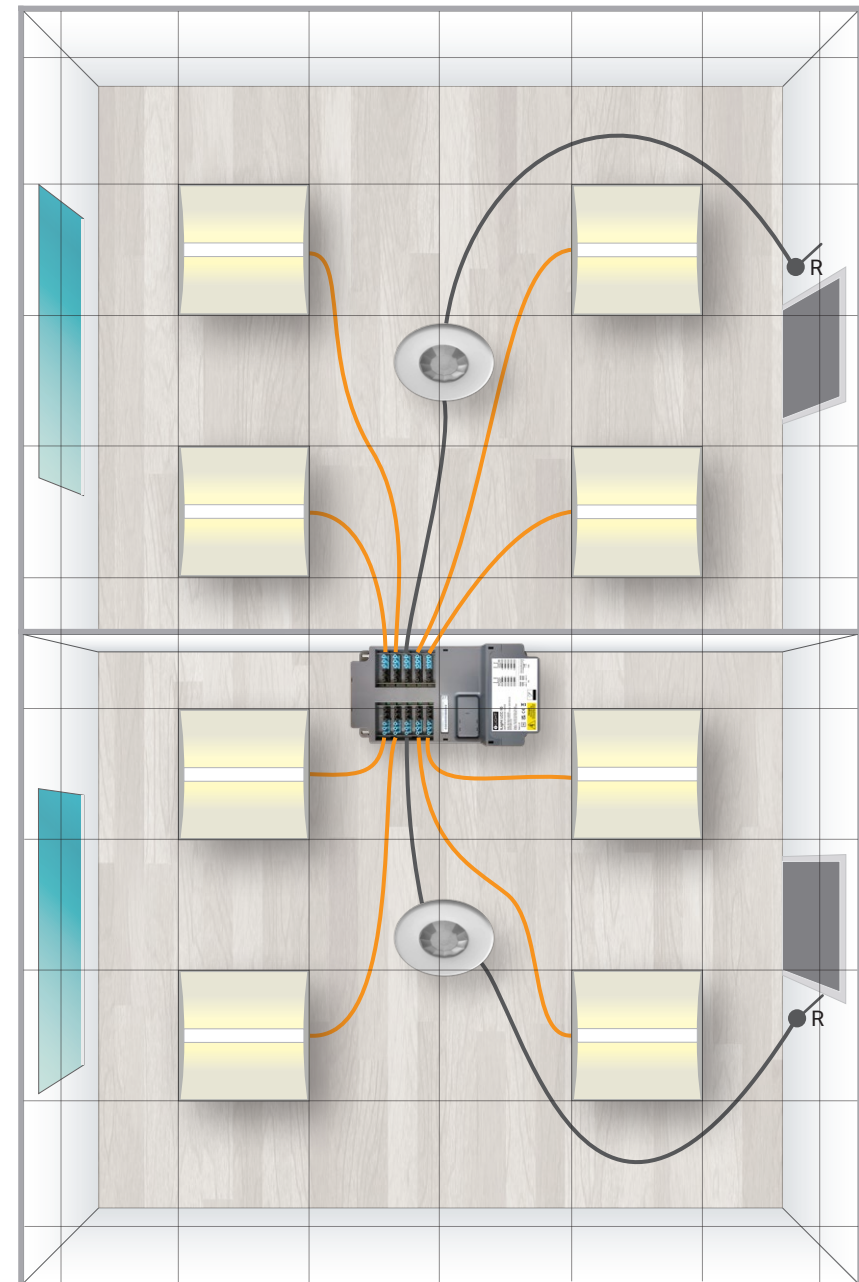
Veterinary



Education

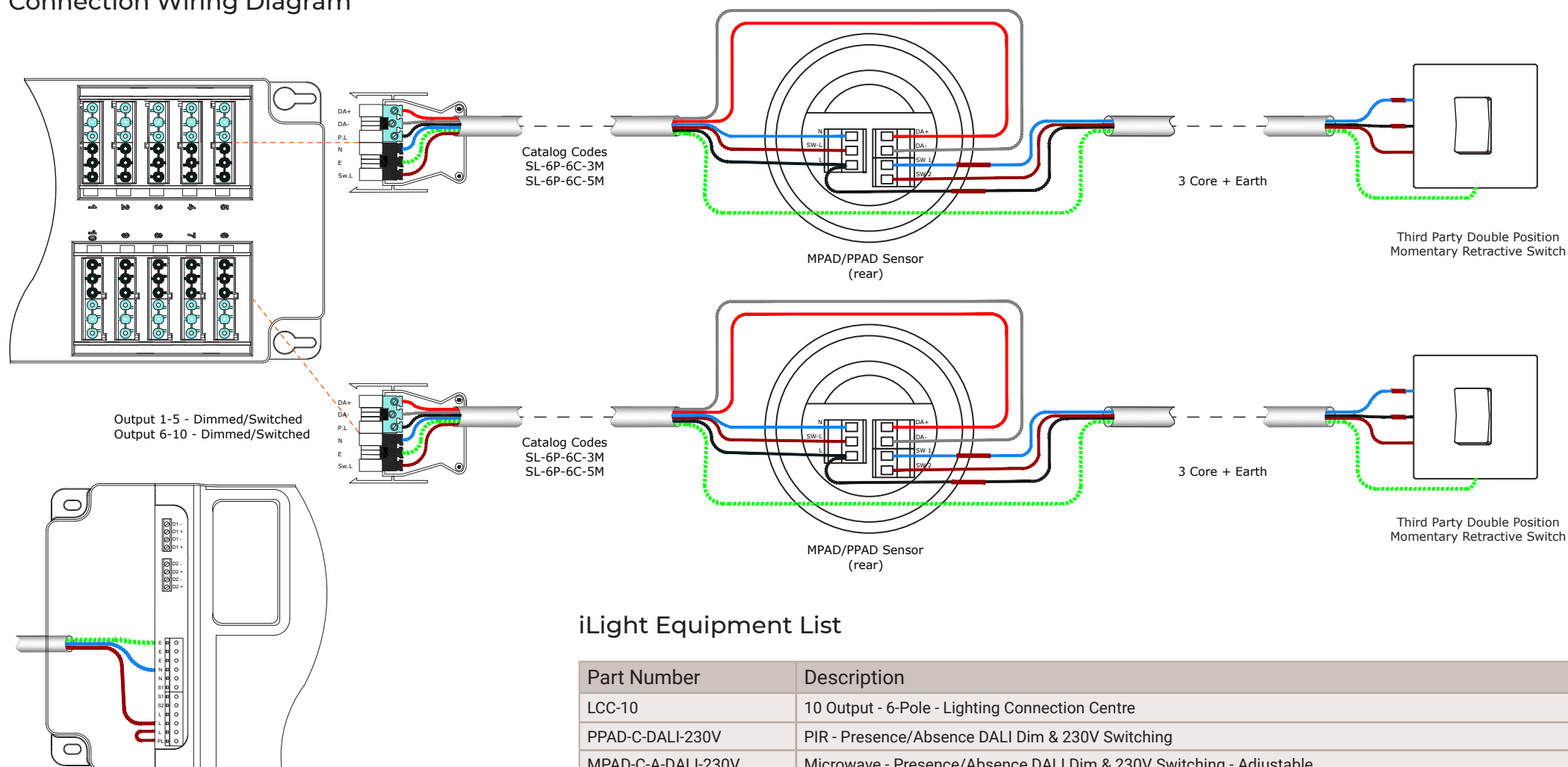


Research



# DALI Dimming - Application 3

## Connection Wiring Diagram



## iLight Equipment List

Part Number	Description
LCC-10	10 Output - 6-Pole - Lighting Connection Centre
PPAD-C-DALI-230V	PIR - Presence/Absence DALI Dim & 230V Switching
MPAD-C-A-DALI-230V	Microwave - Presence/Absence DALI Dim & 230V Switching - Adjustable
LUPX-6P-5C-3M	6-pole Luminaire Lead - 5-core 3 metre - Plug to Open Ends 1.0mm <sup>2</sup> cable
LUPX-6P-5C-5M	6-pole Luminaire Lead - 5-core 5 metre - Plug to Open Ends 1.0mm <sup>2</sup> cable
LUPX-6PR-6C-3M	6-pole Luminaire Lead - 6-core 3 metre - Plug to Open Ends - Red Connector 1.0mm <sup>2</sup>
LUPX-6PR-6C-5M	6-pole Luminaire Lead - 6-core 5 metre - Plug to Open Ends - Red Connector 1.0mm <sup>2</sup>
SL-6P-5C-3M	Sensor Lead - 5-core 3 metre Male - Plug to Phoenix Connectors to suit P/MPAD (Dimming Applications)
SL-6P-5C-5M	Sensor Lead - 5-core 5 metre Male - Plug to Phoenix Connectors to suit P/MPAD (Dimming Applications)
HHIR-LCD-PROG	Infrared Programming Handset with LCD display
HHIR-PROG	Infrared Programming Handset

## DALI Dimming - Application 4

### DALI, presence detection with 2 stage dimming & off

An occupancy sensor is programmed to switch the lighting on to full brightness when presence is detected and the space occupied.

When the space is unoccupied, the lighting level will dim down to an intermediate level for a time before switching off, alerting anyone occupying the space that the lights will soon switch off. The levels can be configured to suit and set with the programming handset.

This application is ideally suited in areas where the lighting should not suddenly switch off when the space is unoccupied. This could be implemented in WCs, stairwells and circulation routes, where extra safety measures are required.

- Stairwells
- Circulation routes
- WCs



Offices



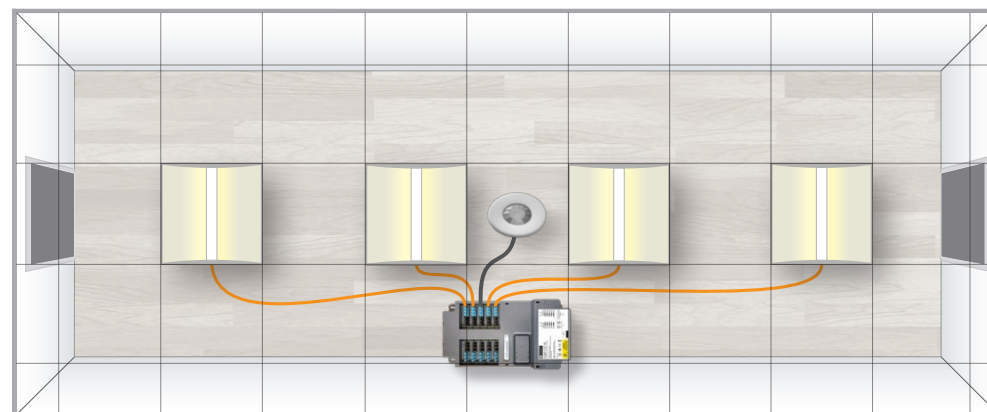
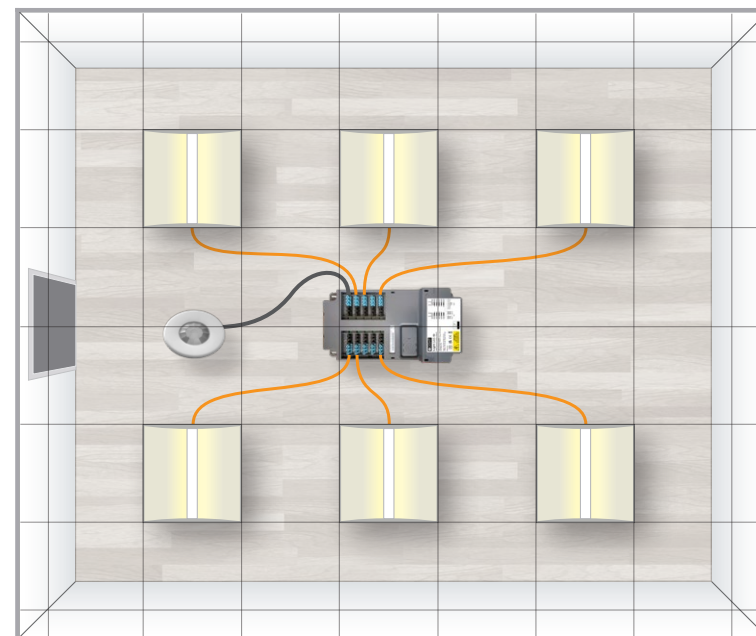
Education



Research

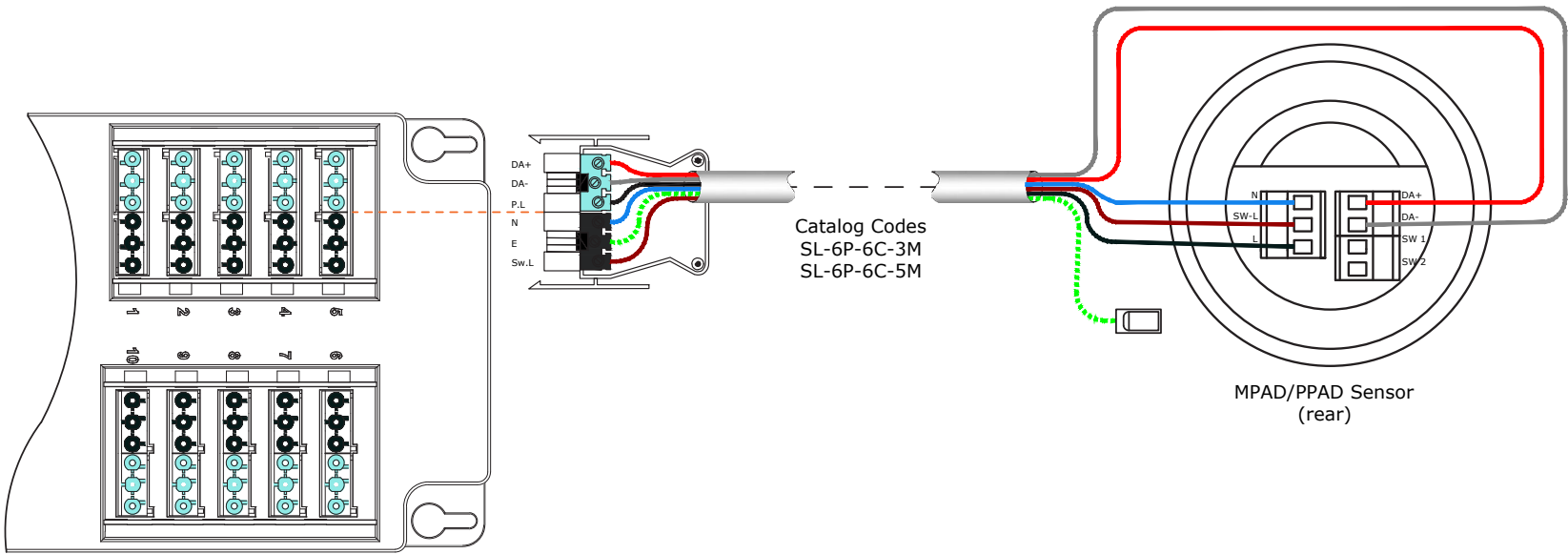


Care Homes

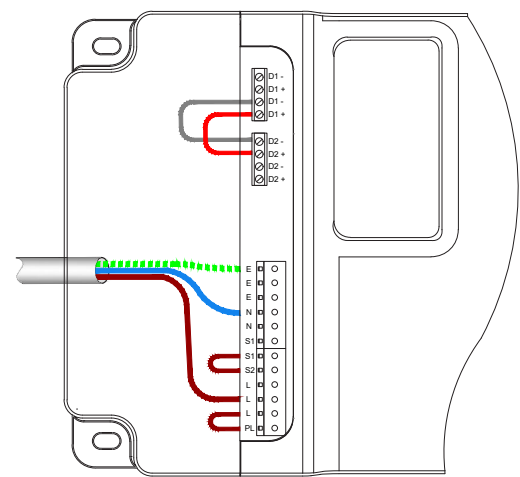


# DALI Dimming - Application 4

## Connection Wiring Diagram



Output 1-10 - Dimmed



## iLight Equipment List

Part Number	Description
LCC-10	10 Output - 6-Pole - Lighting Connection Centre
PPAD-C-DALI-230V	PIR - Presence/Absence DALI Dim & 230V Switching
MPAD-C-A-DALI-230V	Microwave - Presence/Absence DALI Dim & 230V Switching - Adjustable
LUPX-6P-5C-3M	6-pole Luminaire Lead - 5-core 3 metre - Plug to Open Ends 1.0mm <sup>2</sup> cable
LUPX-6P-5C-5M	6-pole Luminaire Lead - 5-core 5 metre - Plug to Open Ends 1.0mm <sup>2</sup> cable
LUPX-6PR-6C-3M	6-pole Luminaire Lead - 6-core 3 metre - Plug to Open Ends - Red Connector 1.0mm <sup>2</sup>
LUPX-6PR-6C-5M	6-pole Luminaire Lead - 6-core 5 metre - Plug to Open Ends - Red Connector 1.0mm <sup>2</sup>
SL-6P-5C-3M	Sensor Lead - 5-core 3 metre Male - Plug to Phoenix Connectors to suit P/MPAD (Dimming Applications)
SL-6P-5C-5M	Sensor Lead - 5-core 5 metre Male - Plug to Phoenix Connectors to suit P/MPAD (Dimming Applications)
HHIR-LCD-PROG	Infrared Programming Handset with LCD display
HHIR-PROG	Infrared Programming Handset

# DALI Dimming - Application 5

## Switch Dim

The LCC-10 provides connection for switch dim applications. This solution is typically applied in spaces without occupancy control where a single position retractive switch is required to dim the lighting.

The luminaires need to be specified as 'switch dim' or 'touch dim', subject to the manufacturer's terminology, as the internal wiring configuration of the driver differs from a DALI installation.

When the switch is pressed and held, it will raise or lower the lighting level. A second press and hold will dim the lighting in the opposite direction, alternating between dim up & dim down. A quick press will switch the lighting on or off.

- Rooms which require dimming, without any occupancy control
- Consulting rooms
- Examination rooms
- Laboratories



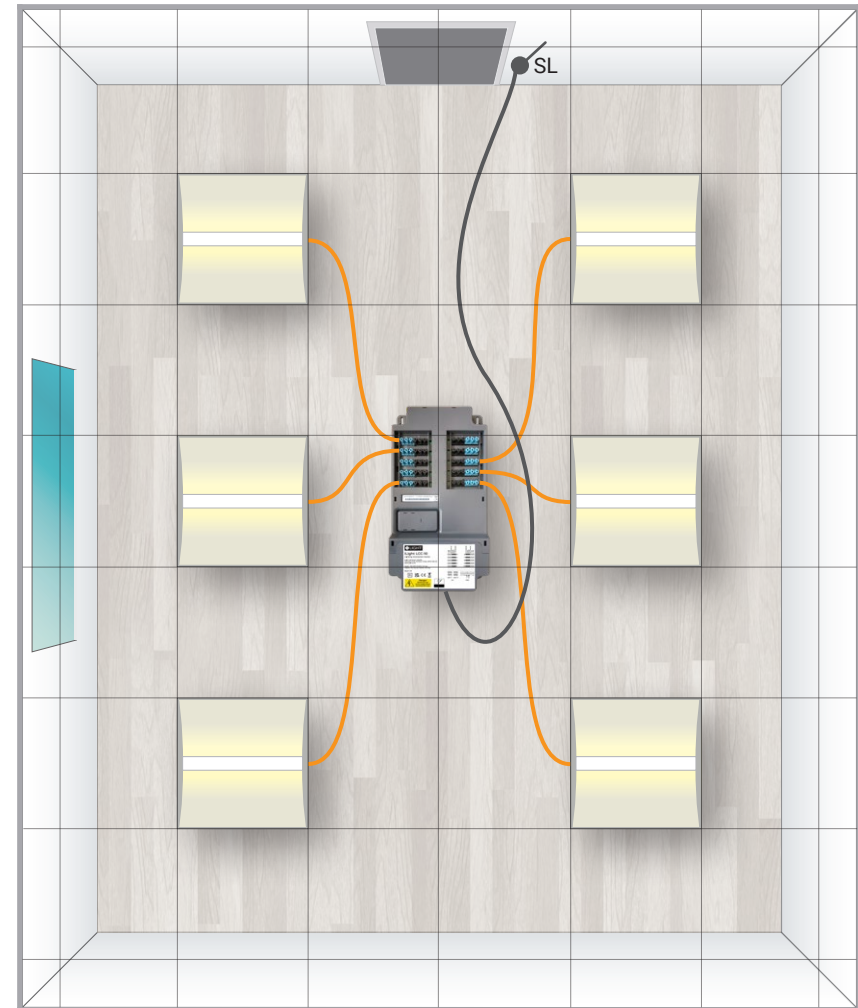
Healthcare



Veterinary

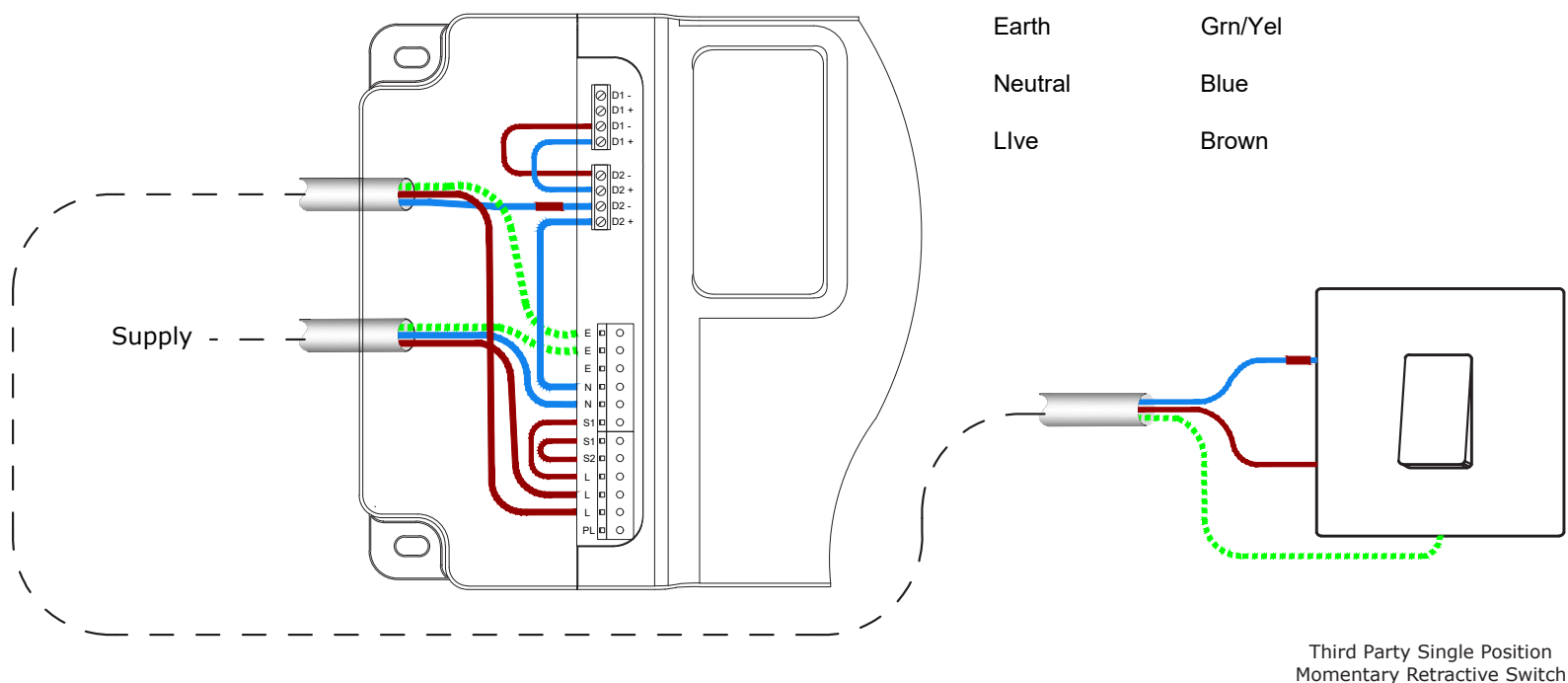


Research



# DALI Dimming - Application 5

## Connection Wiring Diagram



## iLight Equipment List

Part Number	Description
LCC-10	10 Output - 6-Pole - Lighting Connection Centre
LUPX-6P-5C-3M	6-pole Luminaire Lead - 5-core 3 metre - Plug to Open Ends 1.0mm <sup>2</sup> cable
LUPX-6P-5C-5M	6-pole Luminaire Lead - 5-core 5 metre - Plug to Open Ends 1.0mm <sup>2</sup> cable
LUPX-6PR-6C-3M	6-pole Luminaire Lead - 6-core 3 metre - Plug to Open Ends - Red Connector 1.0mm <sup>2</sup>
LUPX-6PR-6C-5M	6-pole Luminaire Lead - 6-core 5 metre - Plug to Open Ends - Red Connector 1.0mm <sup>2</sup>
ACCPL-6P-01-B	6-pole line Plug Connector - Blue/Black (LCMD/LCC) - Black Shell
ACCPL-6P-01-R	6-pole line Plug Connector - Blue/Black (LCMD/LCC) - Red Shell

## DALI Dimming - Application 6

DALI, & fixed output, absence detection with maintained illuminance

The LCC-10 supports two channels of control and the independent dimming and switching of two groups of five outputs.

This can be particularly useful where dimming of the luminaires alongside windows is required to meet building regulations. The two groups of lights are controlled with two, two position retractable switches, one controlling the dimming, the other the switching.

An occupancy sensor in the space can still provide presence and/or absence detection.

Ideally suited to design & build projects, where DALI is not required throughout.

- Meeting rooms
- Cellular offices
- Small Receptions



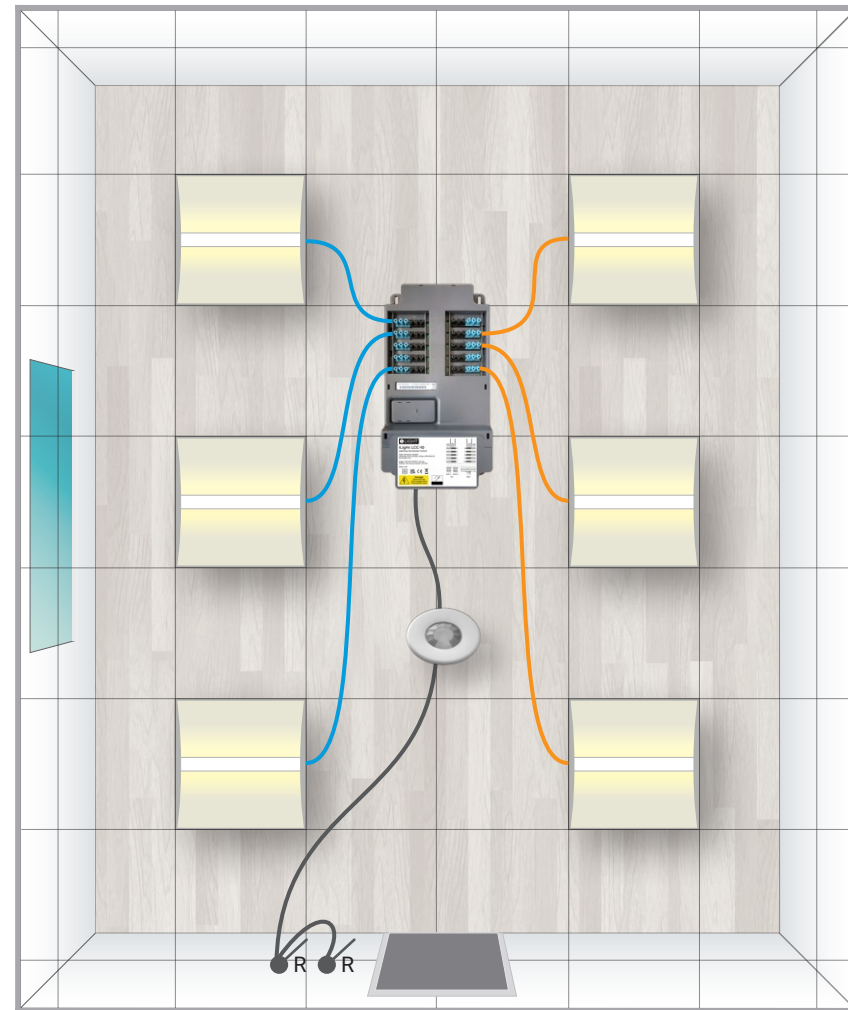
Offices



Healthcare

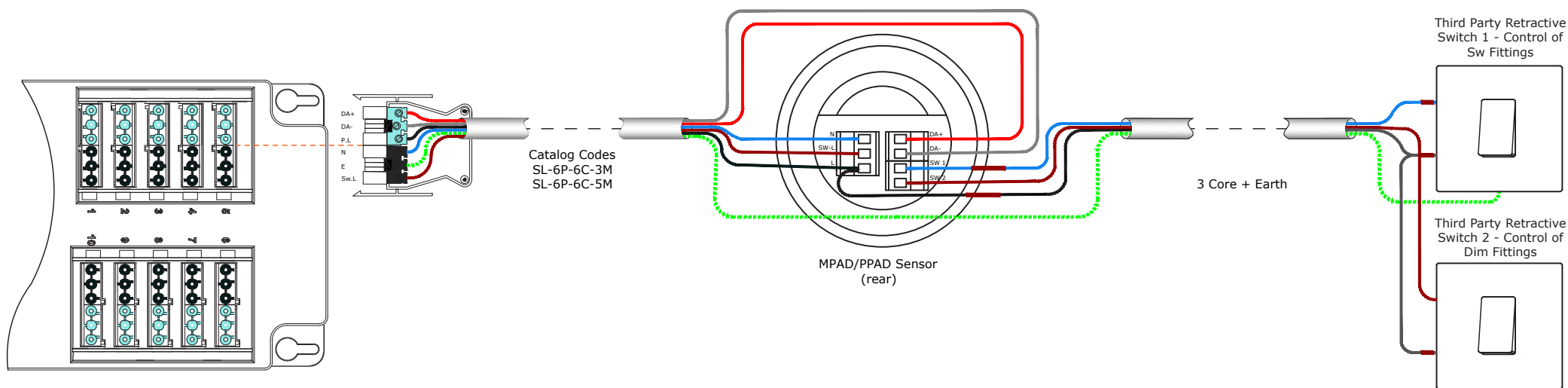


Education



# DALI Dimming - Application 6

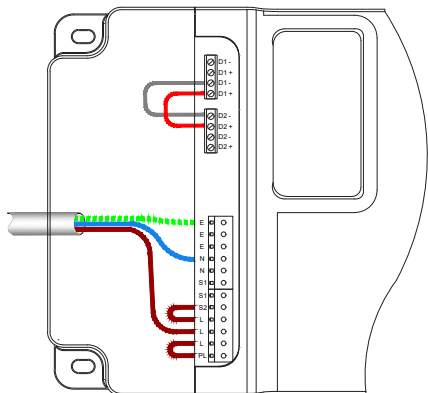
## Connection Wiring Diagram



Output 1-5 - Switched  
Output 6-10 - Dimmed

## iLight Equipment List

Part Number	Description
LCC-10	10 Output - 6-Pole - Lighting Connection Centre
PPAD-C-DALI-230V	PIR - Presence/Absence DALI Dim & 230V Switching
MPAD-C-A-DALI-230V	Microwave - Presence/Absence DALI Dim & 230V Switching - Adjustable
LUPX-6P-3C-3M	6-pole Luminaire Lead - 3-core 3 metre - Plug to Open Ends 1.0mm <sup>2</sup> cable
LUPX-6P-3C-5M	6-pole Luminaire Lead - 3-core 5 metre - Plug to Open Ends 1.0mm <sup>2</sup> cable
LUPX-6PR-4C-3M	6-pole Luminaire Lead - 4-core 3 metre - Plug to Open Ends - Red Connector 1.0mm <sup>2</sup>
LUPX-6PR-4C-5M	6-pole Luminaire Lead - 4-core 5 metre - Plug to Open Ends - Red Connector 1.0mm <sup>2</sup>
LUPX-6P-5C-3M	6-pole Luminaire Lead - 5-core 3 metre - Plug to Open Ends 1.0mm <sup>2</sup> cable
LUPX-6P-5C-5M	6-pole Luminaire Lead - 5-core 5 metre - Plug to Open Ends 1.0mm <sup>2</sup> cable
LUPX-6PR-6C-3M	6-pole Luminaire Lead - 6-core 3 metre - Plug to Open Ends - Red Connector 1.0mm <sup>2</sup>
LUPX-6PR-6C-5M	6-pole Luminaire Lead - 6-core 5 metre - Plug to Open Ends - Red Connector 1.0mm <sup>2</sup>
SL-6P-5C-3M	Sensor Lead - 5-core 3 metre Male - Plug to Phoenix Connectors to suit P/MPAD (Dimming Applications)
SL-6P-5C-5M	Sensor Lead - 5-core 5 metre Male - Plug to Phoenix Connectors to suit P/MPAD (Dimming Applications)
HHIR-LCD-PROG	Infrared Programming Handset with LCD display
HHIR-PROG	Infrared Programming Handset



## Non-Dimmable - Application 7

### Presence Detection On/Off

An occupancy sensor is programmed to provide presence and absence detection. Switching lighting on when the space is occupied and ensuring lighting is switched off when the room is unoccupied.

Time adjustment is available up to 99 minutes, in increments of 1 minute. A time out of 20 minutes is set as default.

The timings can be configured to suit and set with the programming handset - HHIR-LCD-PROG.

- Warehouses
- WCs
- Store rooms
- Internal meeting rooms with no daylight
- Lobby areas



Industrial



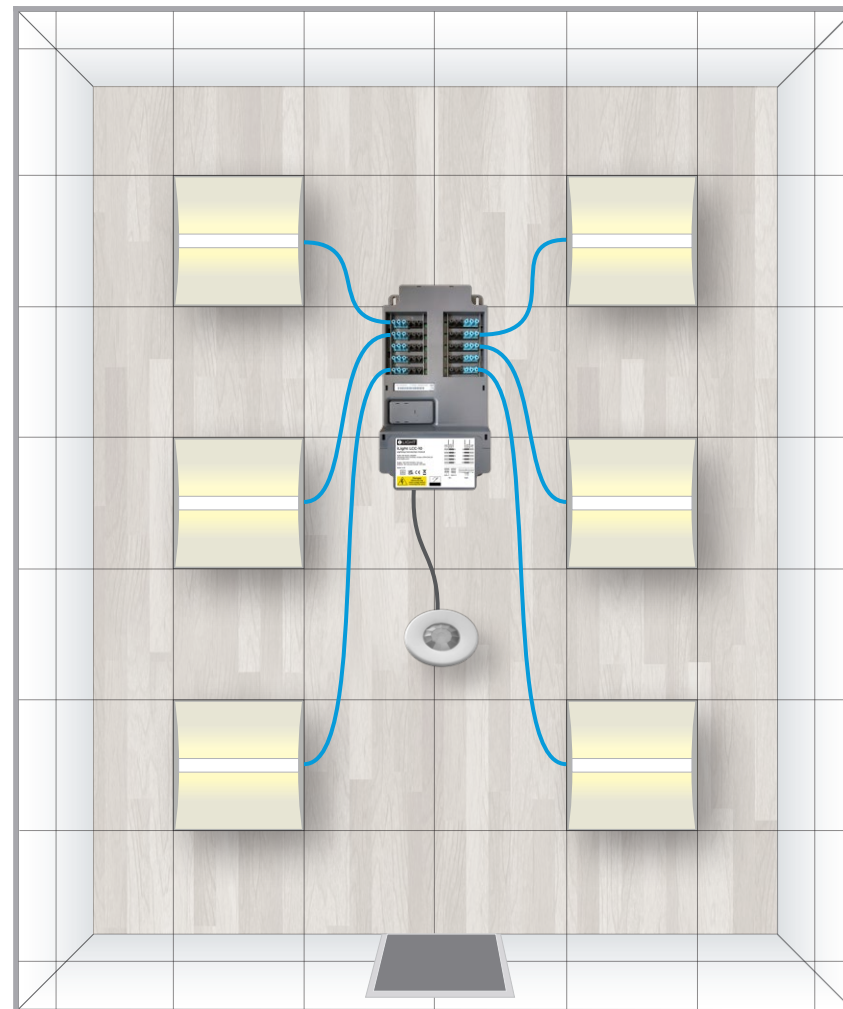
Offices



Education

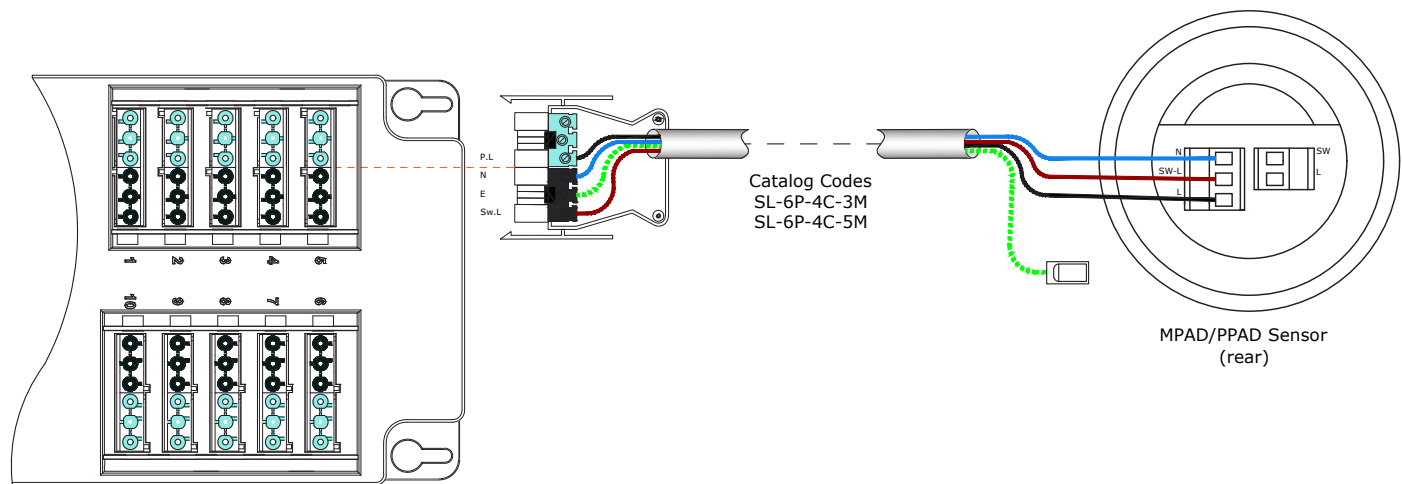


Research

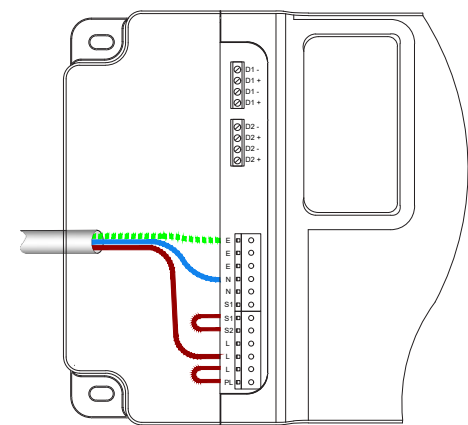


# Non-Dimmable - Application 7

## Connection Wiring Diagram



Output 1-10 - Switched



### iLight Equipment List

Part Number	Description
LCC-10	10 Output - 6-Pole - Lighting Connection Centre
PPAD-C-230V	PIR - Presence/Absence 230V Switching
PPAD-C-HB-230V	PIR - High Bay Presence/Absence 230V Switching
MPAD-C-230V	Microwave - Presence/Absence 230V Switching
LUPX-6P-3C-3M	6-pole Luminaire Lead - 3-core 3 metre - Plug to Open Ends 1.0mm <sup>2</sup> cable
LUPX-6P-3C-5M	6-pole Luminaire Lead - 3-core 5 metre - Plug to Open Ends 1.0mm <sup>2</sup> cable
LUPX-6PR-4C-3M	6-pole Luminaire Lead - 4-core 3 metre - Plug to Open Ends - Red Connector 1.0mm <sup>2</sup>
LUPX-6PR-4C-5M	6-pole Luminaire Lead - 4-core 5 metre - Plug to Open Ends - Red Connector 1.0mm <sup>2</sup>
SL-6P-4C-3M	Sensor Lead - 4-core 3 metre Male - Plug to Phoenix Connectors to suit P/MPAD (Switching Applications)
SL-6P-4C-5M	Sensor Lead - 4-core 5 metre Male - Plug to Phoenix Connectors to suit P/MPAD (Switching Applications)
HHIR-LCD-PROG	Infrared Programming Handset with LCD display
HHIR-PROG	Infrared Programming Handset

## Non-Dimmable - Application 8

### Absence Detection On/Off

A single position retractable switch provides manual control and enables the user to switch lights on or off.

An occupancy sensor is programmed to provide absence detection ensuring lighting is switched off when the room is unoccupied. A Lux-level threshold can be programmed to ensure lighting is switched off when there is adequate daylight present in the space.

Time adjustment is available up to 99 minutes, in increments of 1 minute. A time out of 20 minutes set as default.

The timings and lux levels can be configured to suit and set with the programming handset - HHIR-LCD-PROG.

- Meeting Rooms
- Cellular Offices
- Small Receptions
- Patient Rooms
- Doctors Surgeries
- Laboratories
- Consulting Rooms
- Warehouses
- Store Rooms



Industrial



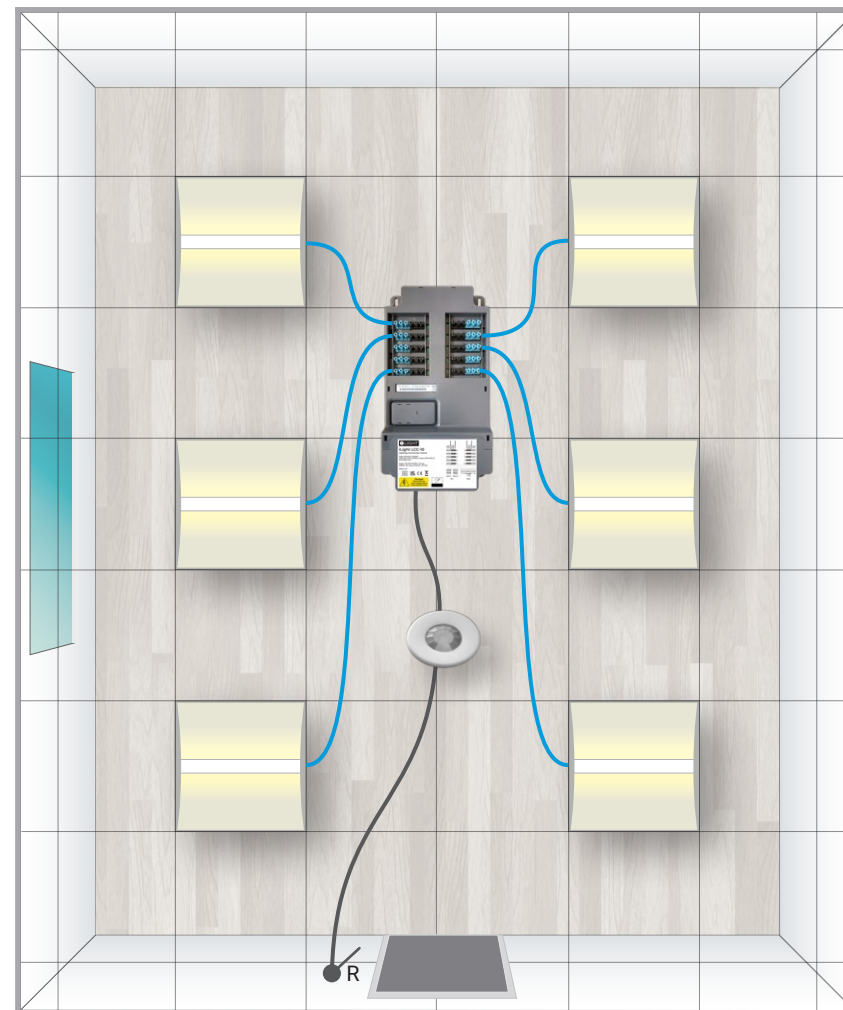
Offices



Education

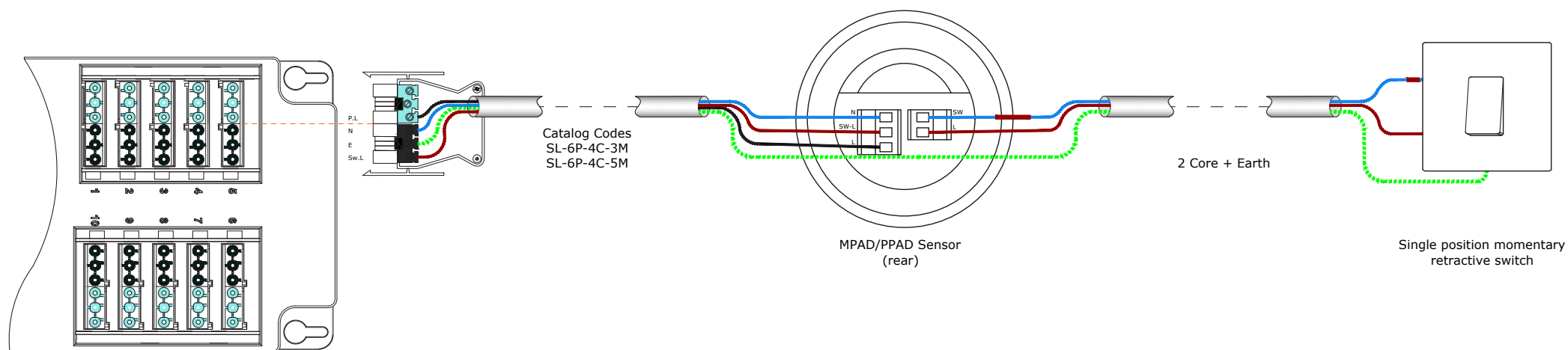


Research

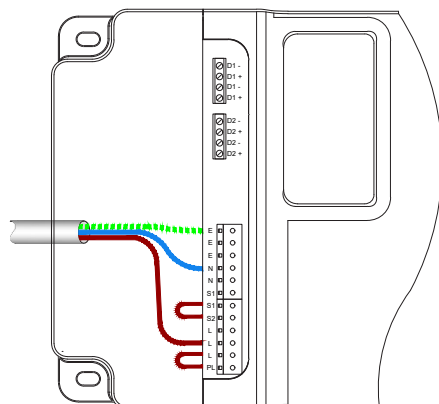


# Non-Dimmable - Application 8

## Connection Wiring Diagram



Output 1-10 - Switched



## iLight Equipment List

Part Number	Description
LCC-10	10 Output - 6-Pole - Lighting Connection Centre
PPAD-C-230V	PIR - Presence/Absence 230V Switching
PPAD-C-HB-230V	PIR - High Bay Presence/Absence 230V Switching
MPAD-C-230V	Microwave - Presence/Absence 230V Switching
LUPX-6P-3C-3M	6-pole Luminaire Lead - 3-core 3 metre - Plug to Open Ends 1.0mm <sup>2</sup> cable
LUPX-6P-3C-5M	6-pole Luminaire Lead - 3-core 5 metre - Plug to Open Ends 1.0mm <sup>2</sup> cable
LUPX-6PR-4C-3M	6-pole Luminaire Lead - 4-core 3 metre - Plug to Open Ends - Red Connector 1.0mm <sup>2</sup>
LUPX-6PR-4C-5M	6-pole Luminaire Lead - 4-core 5 metre - Plug to Open Ends - Red Connector 1.0mm <sup>2</sup>
SL-6P-4C-3M	Sensor Lead - 4-core 3 metre Male - Plug to Phoenix Connectors to suit P/MPAD (Switching Applications)
SL-6P-4C-5M	Sensor Lead - 4-core 5 metre Male - Plug to Phoenix Connectors to suit P/MPAD (Switching Applications)
HHIR-LCD-PROG	Infrared Programming Handset with LCD display
HHIR-PROG	Infrared Programming Handset

## Non-Dimmable - Application 9

### Absence Detection Across Two Rooms

Single position retractable switches provides manual control and enables the user to switch lights on or off.

An occupancy sensor is programmed to provide absence detection ensuring lighting is switched off when the room is unoccupied. A Lux-level threshold can be programmed to ensure lighting is switched off when there is adequate daylight present in the space.

Time adjustment is available up to 99 minutes, in increments of 1 minute. A time out of 20 minutes set as default. The timings and lux levels can be configured to suit and set with the programming handset - HHR-LCD-PROG.

The LCC-10 supports two channels of control and the independent switching of two groups of five outputs.

- Meeting Rooms
- Cellular Offices
- Small Receptions
- Patient Rooms
- Doctors Surgeries
- Laboratories
- Consulting Rooms
- Warehouses
- Store Rooms



Industrial



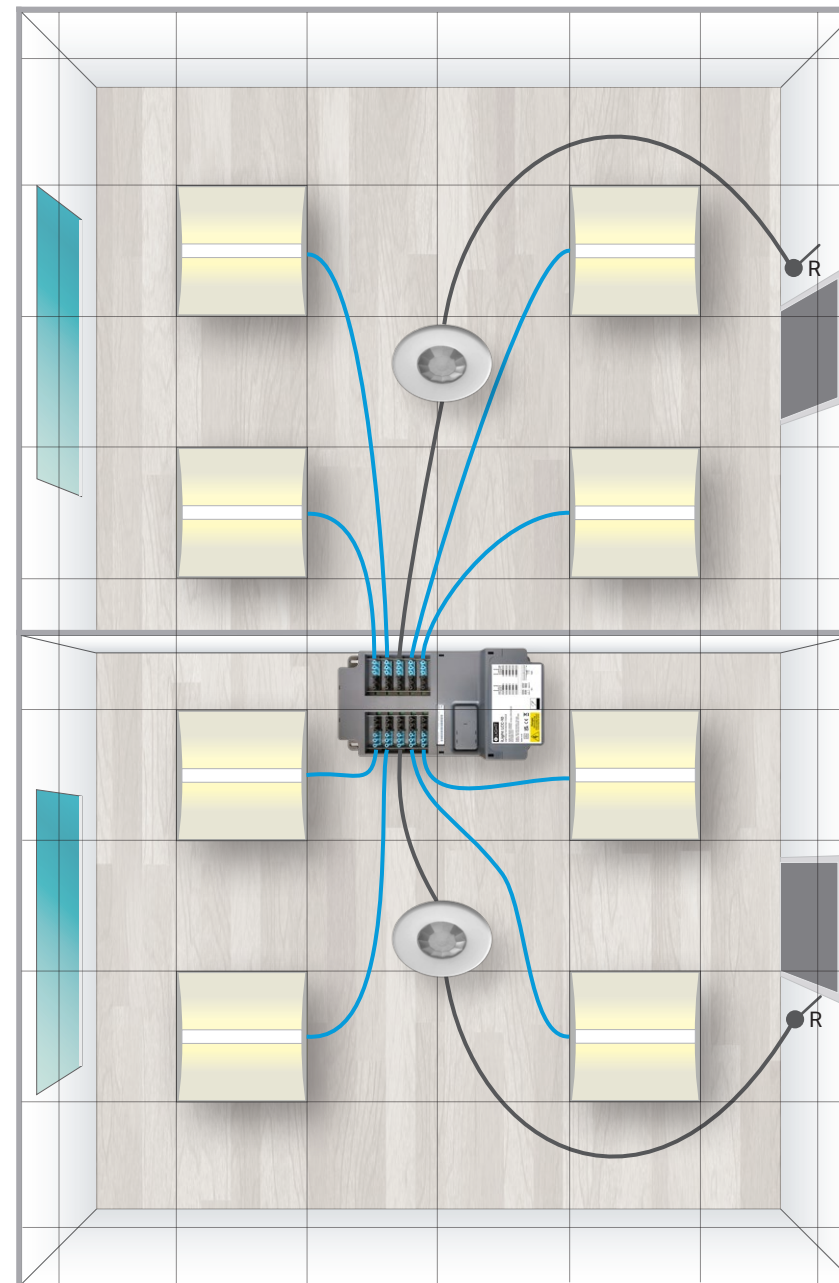
Offices



Education

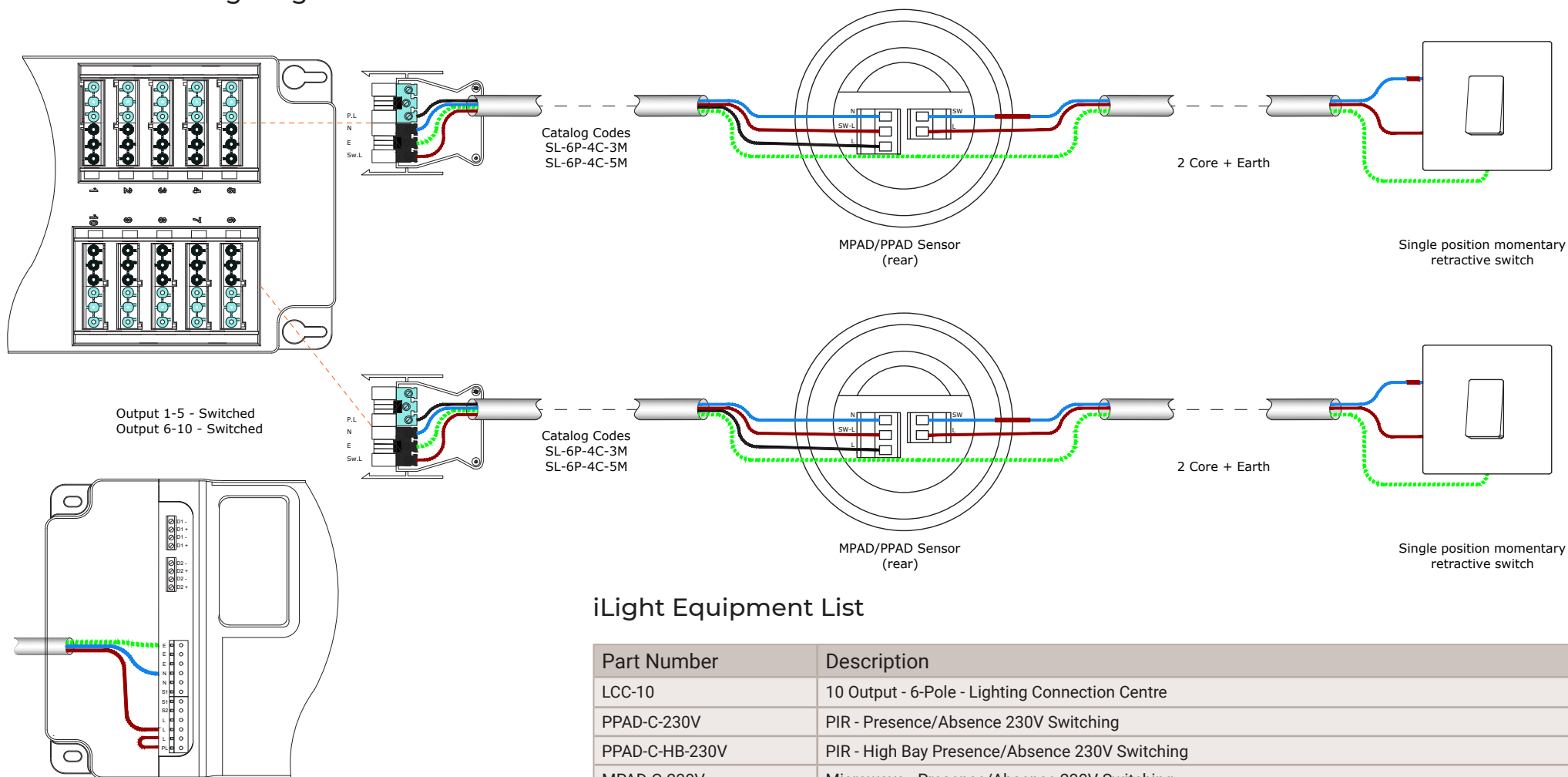


Research



# Non-Dimmable - Application 9

## Connection Wiring Diagram



## iLight Equipment List

Part Number	Description
LCC-10	10 Output - 6-Pole - Lighting Connection Centre
PPAD-C-230V	PIR - Presence/Absence 230V Switching
PPAD-C-HB-230V	PIR - High Bay Presence/Absence 230V Switching
MPAD-C-230V	Microwave - Presence/Absence 230V Switching
LUPX-6P-3C-3M	6-pole Luminaire Lead - 3-core 3 metre - Plug to Open Ends 1.0mm <sup>2</sup> cable
LUPX-6P-3C-5M	6-pole Luminaire Lead - 3-core 5 metre - Plug to Open Ends 1.0mm <sup>2</sup> cable
LUPX-6PR-4C-3M	6-pole Luminaire Lead - 4-core 3 metre - Plug to Open Ends - Red Connector 1.0mm <sup>2</sup>
LUPX-6PR-4C-5M	6-pole Luminaire Lead - 4-core 5 metre - Plug to Open Ends - Red Connector 1.0mm <sup>2</sup>
SL-6P-4C-3M	Sensor Lead - 4-core 3 metre Male - Plug to Phoenix Connectors to suit P/MPAD (Switching Applications)
SL-6P-4C-5M	Sensor Lead - 4-core 5 metre Male - Plug to Phoenix Connectors to suit P/MPAD (Switching Applications)
HHIR-LCD-PROG	Infrared Programming Handset with LCD display
HHIR-PROG	Infrared Programming Handset

## Non-Dimmable - Application 10

### Locally switched with no controls

For rooms requiring conventional control the LCC-1 can be employed to provide pluggable connection points for luminaires. Used in combination with the wide range of supporting wiring accessories for a quick and easy installation.

A standard latching light switch can be installed for switching the lighting on or off.

Multiple LCC-10's can be wired in parallel increasing output capability as required.

- Disabled toilets
- Commercial Kitchens
- Dark rooms



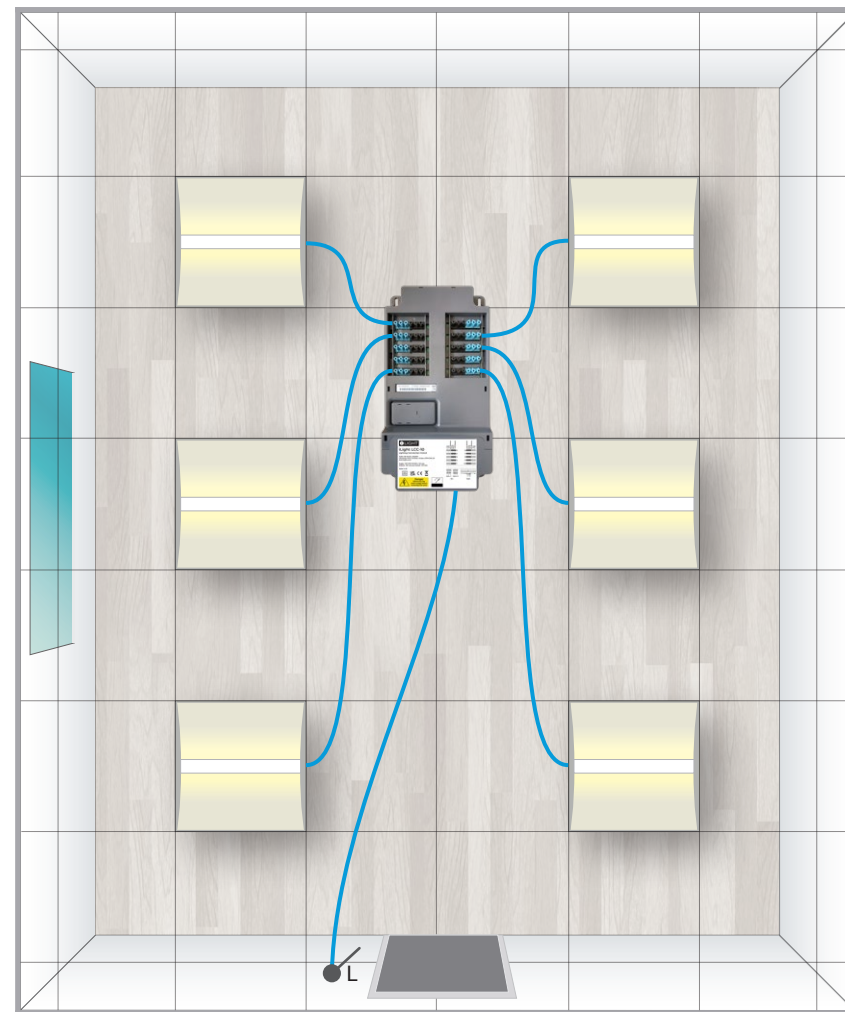
Industrial



Healthcare

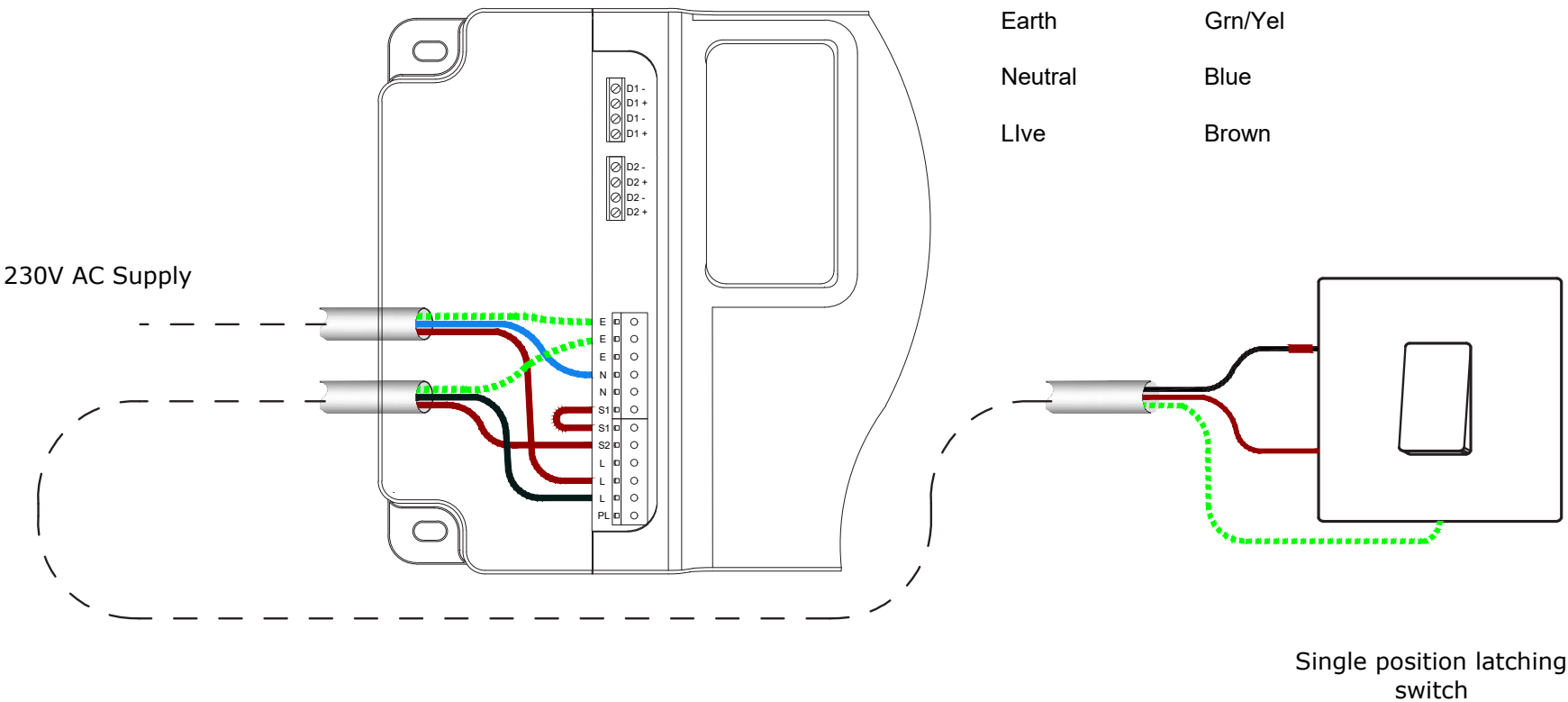


Research



# Non-Dimmable - Application 10

## Connection Wiring Diagram



### iLight Equipment List

Part Number	Description
LCC-10	10 Output - 6-Pole - Lighting Connection Centre
LUPX-6P-3C-3M	6-pole Luminaire Lead - 3-core 3 metre - Plug to Open Ends 1.0mm <sup>2</sup> cable
LUPX-6P-3C-5M	6-pole Luminaire Lead - 3-core 5 metre - Plug to Open Ends 1.0mm <sup>2</sup> cable
LUPX-6PR-4C-3M	6-pole Luminaire Lead - 4-core 3 metre - Plug to Open Ends - Red Connector 1.0mm <sup>2</sup>
LUPX-6PR-4C-5M	6-pole Luminaire Lead - 4-core 5 metre - Plug to Open Ends - Red Connector 1.0mm <sup>2</sup>
HHIR-LCD-PROG	Infrared Programming Handset with LCD display
HHIR-PROG	Infrared Programming Handset

# Emergency - Application 11

## Key Switch Emergency Test

The LCC-10 provides a dedicated terminal for permanent live, allowing for the connection of a conventional keys switch. This allows the supply to emergency luminaires to be interrupted for the purpose of testing.

The LCC-10 supports two channels of control and the independent switching and dimming of two groups of five outputs or all ten outputs to be linked. In either configuration all ten outputs are served by the same permanent live.



Offices



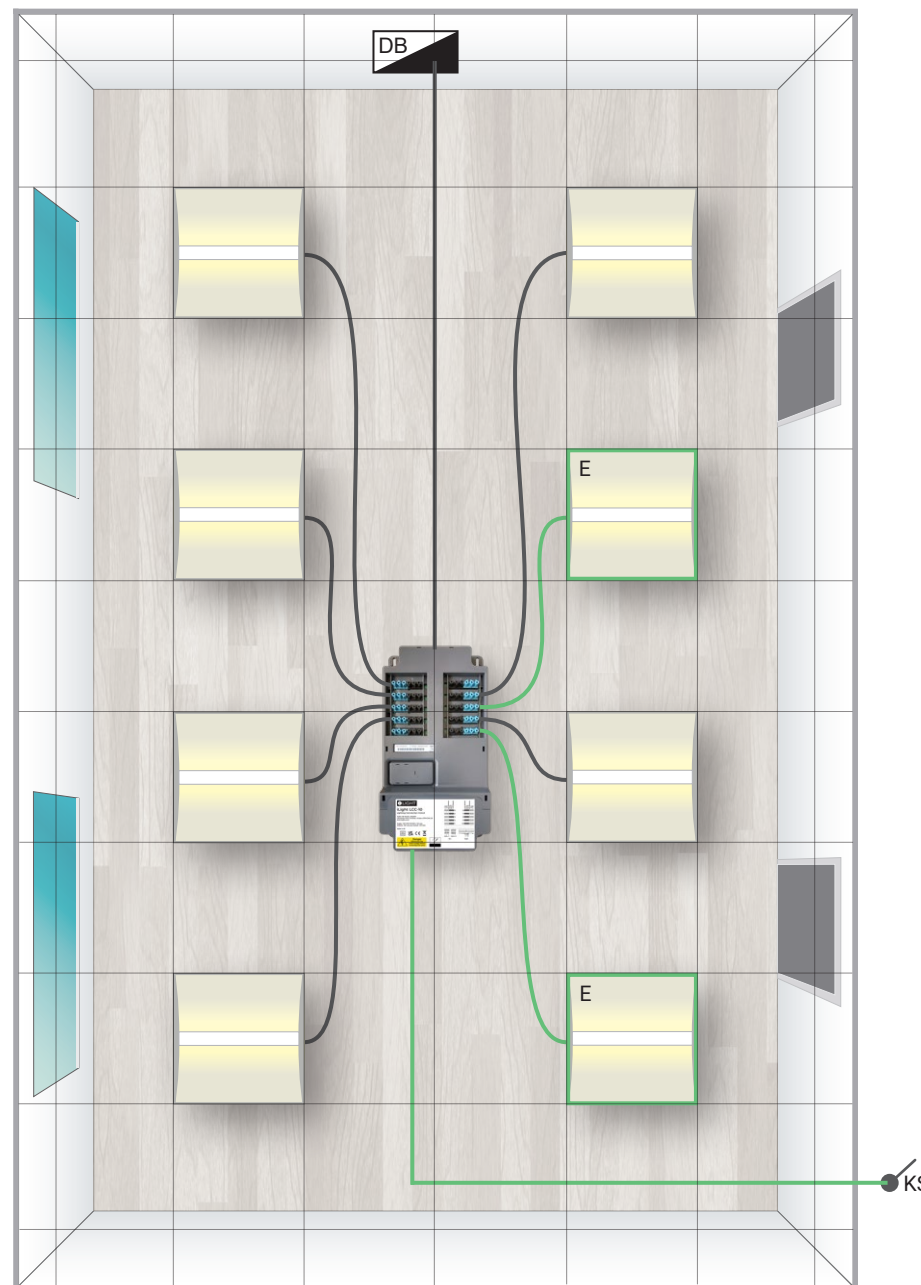
Education



Research

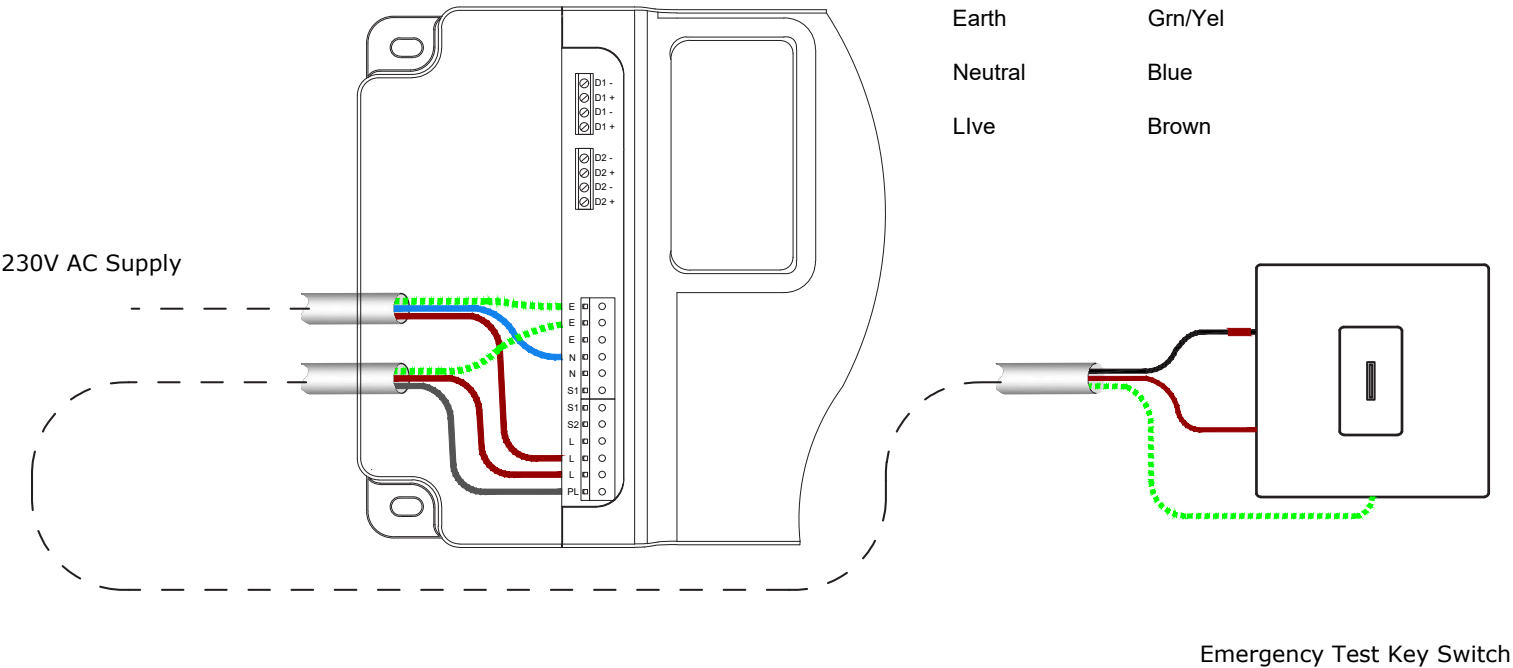


Healthcare



# Emergency - Application 11

## Connection Wiring Diagram



### iLight Equipment List

Part Number	Description
LCC-10	10 Output - 6-Pole - Lighting Connection Centre
LUPX-6P-5C-3M	6-pole Luminaire Lead - 5-core 3 metre - Plug to Open Ends 1.0mm <sup>2</sup> cable
LUPX-6P-5C-5M	6-pole Luminaire Lead - 5-core 5 metre - Plug to Open Ends 1.0mm <sup>2</sup> cable
LUPX-6PR-6C-3M	6-pole Luminaire Lead - 6-core 3 metre - Plug to Open Ends - Red Connector 1.0mm <sup>2</sup>
LUPX-6PR-6C-5M	6-pole Luminaire Lead - 6-core 5 metre - Plug to Open Ends - Red Connector 1.0mm <sup>2</sup>
ACCPL-6P-01-B	6-pole line Plug Connector - Blue/Black (LCMD/LCC) - Black Shell
ACCPL-6P-01-R	6-pole line Plug Connector - Blue/Black (LCMD/LCC) - Red Shell

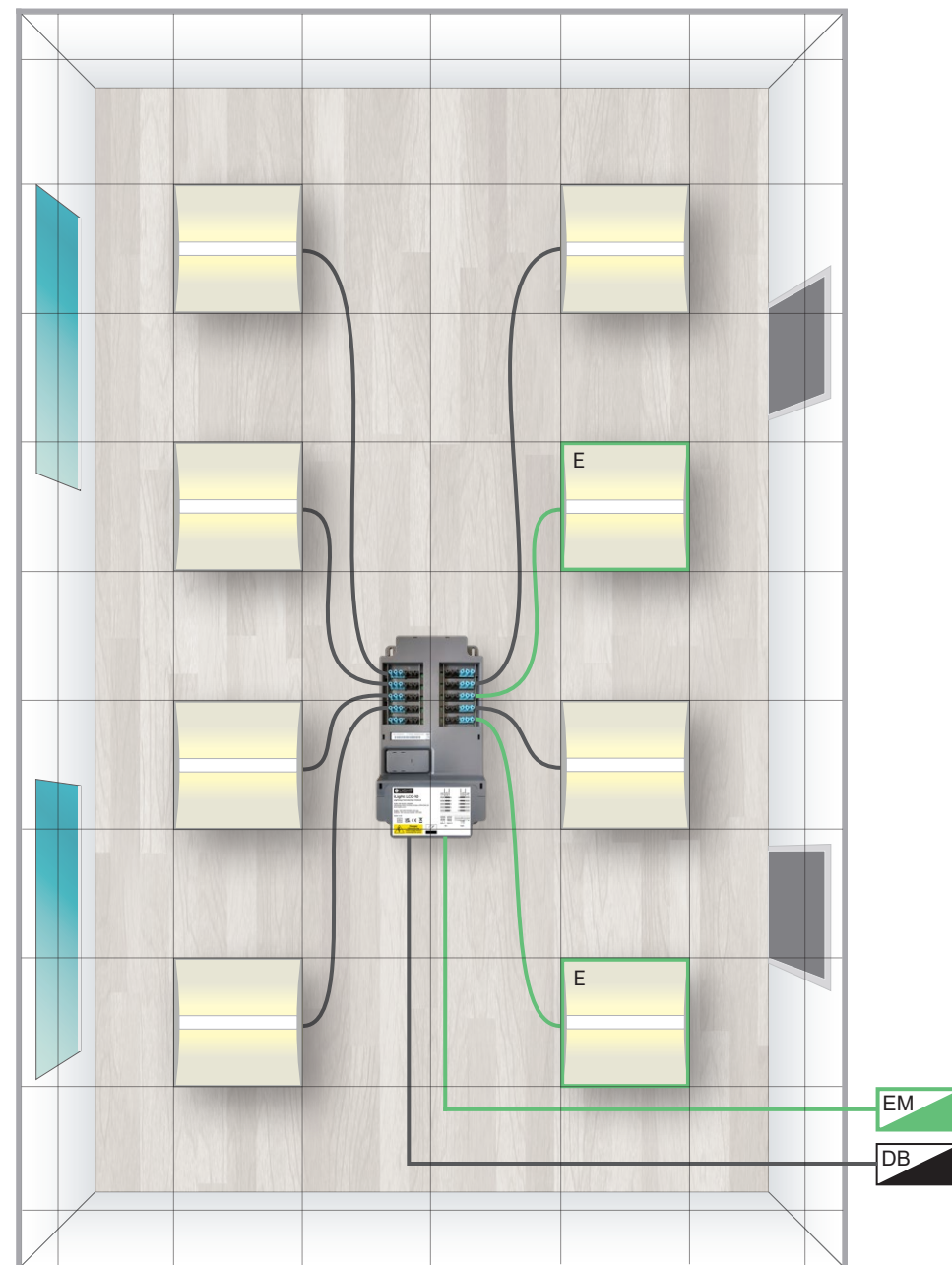
## Emergency - Application 12

### Emergency Central Battery

Hospitals and data centres require a UPS system for critical areas, ensuring there is no interruption to the power supply, during a mains power failure.

The LCC-10 provides a dedicated terminal for permanent live, allowing for the connection of a separate maintained or specific emergency supply from a central battery system or other un-interruptible source.

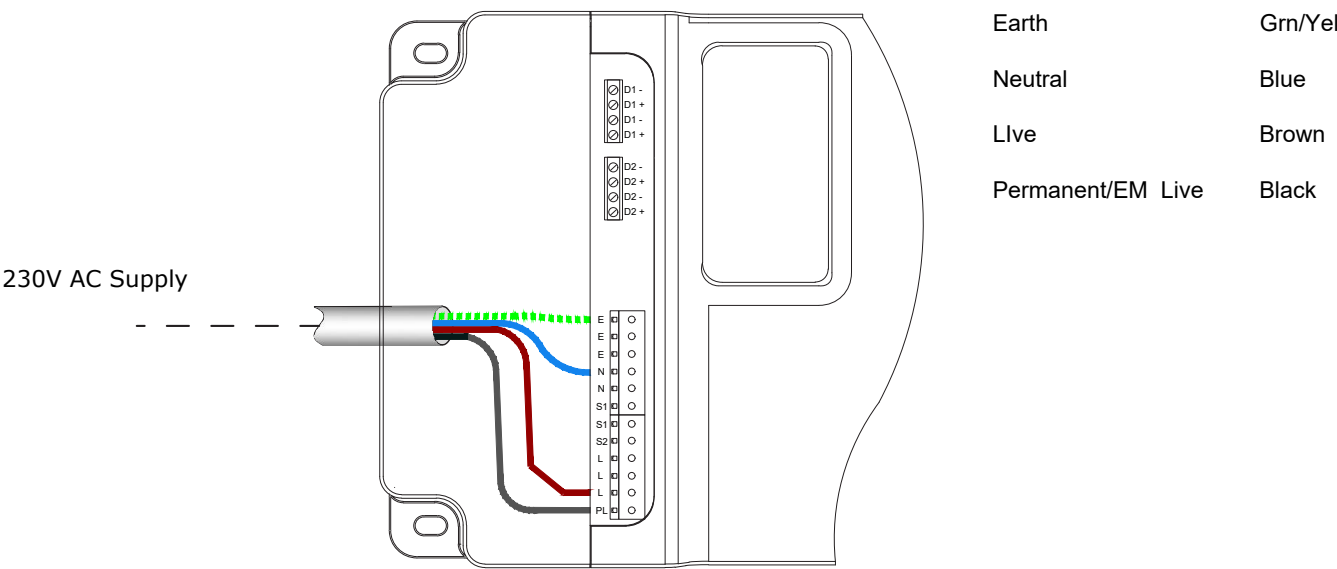
The LCC-10 supports two channels of control and the independent switching and dimming of two groups of five outputs or all ten outputs to be linked. In either configuration all ten outputs are served by the same permanent live.



# Emergency - Application 12

## Connection Wiring Diagram

Switching Arrangement Dependant on application



### iLight Equipment List

Part Number	Description
LCC-10	10 Output - 6-Pole - Lighting Connection Centre
LUPX-6P-5C-3M	6-pole Luminaire Lead - 5-core 3 metre - Plug to Open Ends 1.0mm <sup>2</sup> cable
LUPX-6P-5C-5M	6-pole Luminaire Lead - 5-core 5 metre - Plug to Open Ends 1.0mm <sup>2</sup> cable
LUPX-6PR-6C-3M	6-pole Luminaire Lead - 6-core 3 metre - Plug to Open Ends - Red Connector 1.0mm <sup>2</sup>
LUPX-6PR-6C-5M	6-pole Luminaire Lead - 6-core 5 metre - Plug to Open Ends - Red Connector 1.0mm <sup>2</sup>
ACCPL-6P-01-B	6-pole line Plug Connector - Blue/Black (LCMD/LCC) - Black Shell
ACCPL-6P-01-R	6-pole line Plug Connector - Blue/Black (LCMD/LCC) - Red Shell

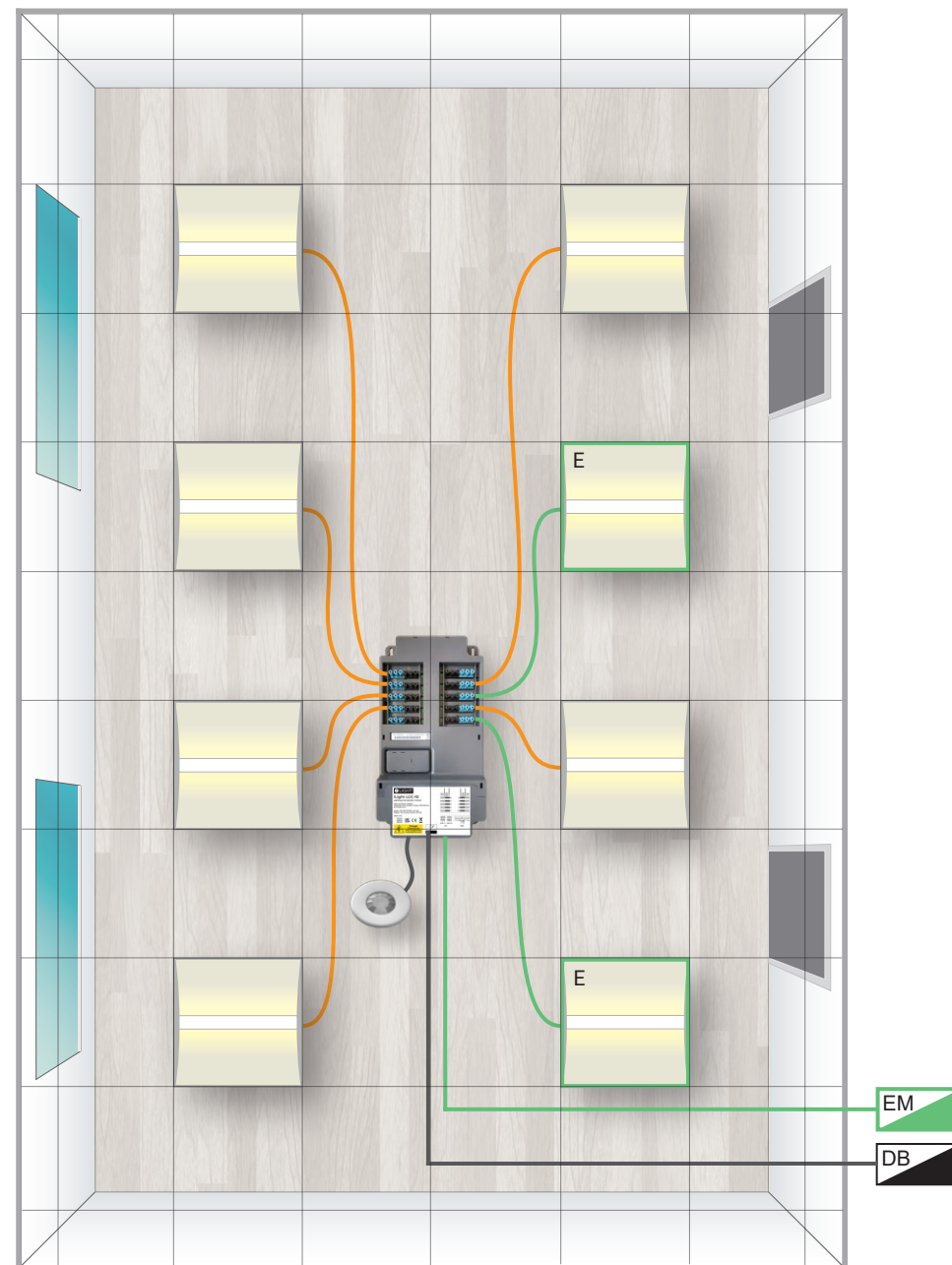
## Emergency - Application 13

### Emergency Central Battery (DALI dimmable)

Hospitals and data centres require a UPS system for critical areas, ensuring there is no interruption to the power supply, during a mains power failure.

The LCC-10 provides a dedicated terminal for permanent live, allowing for the connection of a separate maintained or specific emergency supply from a central battery system or other un-interruptible source. DALI connections can be made simultaneously to the electrical and emergency supplies.

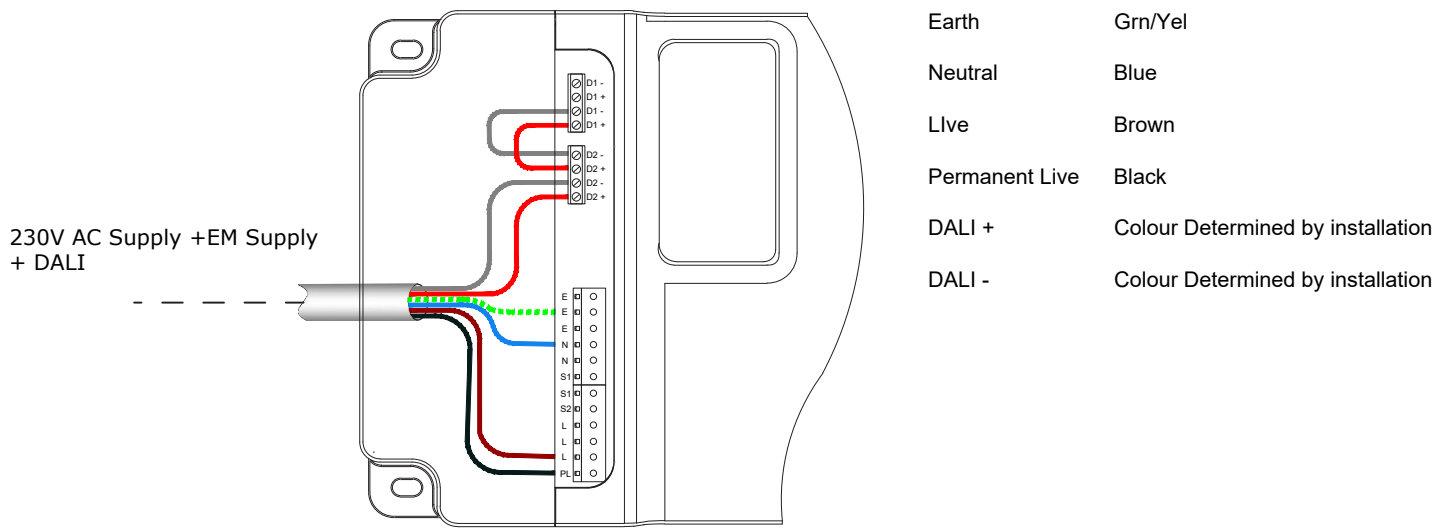
During change over from normal operation to the back up supply the DALI line must also be disconnected. These applications call for the use of an ACM (Automatic Changeover Module).



# Emergency - Application 13

## Connection Wiring Diagram

Switching Arrangement Dependant on application



### iLight Equipment List

Part Number	Description
LCC-10	10 Output - 6-Pole - Lighting Connection Centre
LUPX-6P-5C-3M	6-pole Luminaire Lead - 5-core 3 metre - Plug to Open Ends 1.0mm <sup>2</sup> cable
LUPX-6P-5C-5M	6-pole Luminaire Lead - 5-core 5 metre - Plug to Open Ends 1.0mm <sup>2</sup> cable
LUPX-6PR-6C-3M	6-pole Luminaire Lead - 6-core 3 metre - Plug to Open Ends - Red Connector 1.0mm <sup>2</sup>
LUPX-6PR-6C-5M	6-pole Luminaire Lead - 6-core 5 metre - Plug to Open Ends - Red Connector 1.0mm <sup>2</sup>
ACCPL-6P-01-B	6-pole line Plug Connector - Blue/Black (LCMD/LCC) - Black Shell
ACCPL-6P-01-R	6-pole line Plug Connector - Blue/Black (LCMD/LCC) - Red Shell

# Quick Start Commissioning

## With the HHIR-LCD-PROG

### All programming requires the following functions

- Press & hold the on/off button to switch the handset on
- Click the right arrow to go into the standalone menu
- Select V3 products, using the navigation arrows
- Select PRM for switching PIRs or DD for DALI dimmable PIRs
- Detector parameters

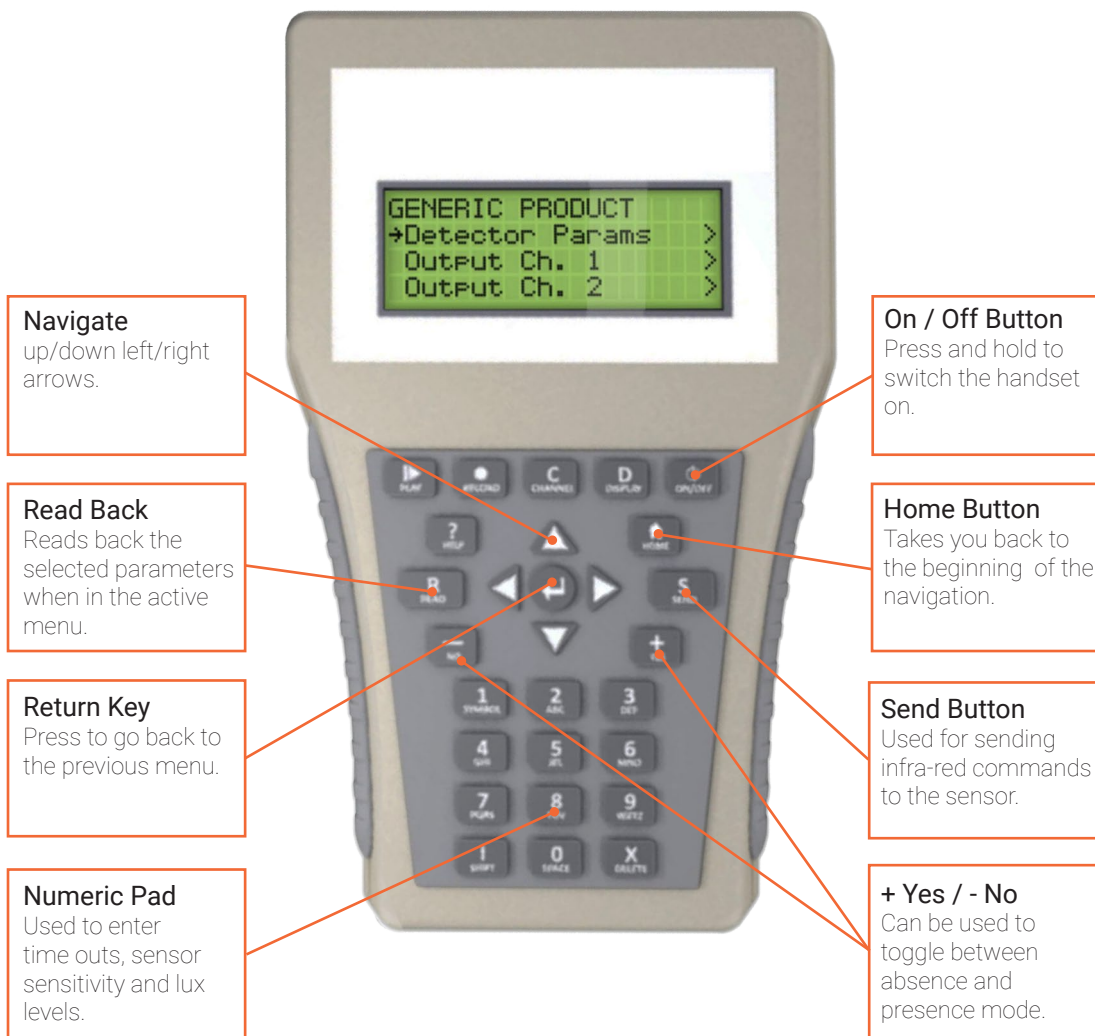


### Detector parameters (most commonly used features)

The following functions can be applied to any detector, switching or dimming.

- Time-out: Min is 1 minute, max is 99 minutes
- Detection mode: Presence operation auto on /auto off or absence operation manual on, auto off
- Sensor sensitivity: When the sensor is on or off (1 is min, 9 is max)
- Walk test on or off: When on, the led in the sensor flashes when movement is detected
- Disabling the detector: Used when you only want the photocell to work. This can be used when daylight dimming a row of luminaires running adjacent to the window or with a non dimming detector. When a lux level is reached the luminaires will switch off.

## HHIR-LCD-PROG



# Commissioning

## Adjusting the time out Go to detector parameters

- Press the down arrow to the time out
- Type in the numerical keypad the number of minutes
- Aim the handset at the sensor and press the send button
- The led will flash

```
Detection Mode Abs  
→Timeout 30  
Recovery (secs) 10  
Sensitivity On 9
```

## Adjust the sensitivity

- Go to detector parameters
- Press the down arrow to the sensitivity on or sensitivity off
- Type in the numerical keypad numbers 1 to 9 (9 = max sensitivity)
- Aim the handset at the sensor and press the send button
- The led will flash

```
Abs Recovery (se 10  
→Sensitivity On 9  
Sensitivity Off 9  
Manual Time Out 10
```

## Adjust the detection mode absence or presence

- Go to detector parameters
- Press the down arrow to the detection mode
- Type in the numerical keypad the number of minute
- Aim the handset at the sensor and press the send button
- The led will flash

```
DETECTOR PARAMS  
→Detection Mode Abs  
Timeout 20  
very (secs) 10
```

## Walk test

- Go to detector parameters
- Press the down arrow to the walk test LED
- Press yes or no on the keypad
- Aim the handset at the sensor and press the send button
- The led will flash

```
Manual Time Out 10  
→Walk Test LED Off  
Disable Detect. No  
Power Up State Yes
```



# Quick Start Commissioning

## With the HHIR-LCD-PROG

### Adjusting the lux level (a lux meter is required)

- Go to detector parameters
- Press the down arrow to lux control & press the right arrow
- Type in the numerical keypad a value between 1 and 999 (The numbers represent a percentage and not a lux level. This is why a separate lux meter is required. For setting the light level to around 500 lux, initially set the numerical number to around 650 to 750 and measure the illuminance on the working plan. Increase or decrease the value on the numerical key by increments of around 25 until you reach your desired lux level. Aim the handset at the sensor and press the send button
- The led will flash



### DALI luminaires flashing

- Go to detector parameters
- Press the down arrow to Output Ch.2 (Dim)
- Please note that there are two channels when commissioning the DALI 230V range of detectors. Channel 1 is the relay and channel 2 is the DALI
- Press the right arrow and scroll down the menu to the Gear Type
- Press the +/yes button D-ON (DALI on mode)
- Aim the handset at the sensor and press the send button
- The led will flash



### Factory reset

- Go to detector parameters
- Press the down arrow to config
- Scroll to factory reset
- Aim the handset at the sensor and press the send button
- The led will flash



### User menu

- Go to standalone
- Select V3 (version 3)
- Select DD for DALI dimming or PRM for switching
- Scroll down detector parameters to the user menu



The user menu options allow you to test the luminaires are switching and dimming



Over-ride-on switches the lights permanently on  
Over-ride off switches the lights permanently off  
Cancel puts to sensor back into normal operation



Test the lights are dimming



Scene 1 - 100% output  
Scene 2 - 50% output  
Scene 3 - 25% output  
Scene 4 - 25% output

# Commissioning

## Applications 2 & 3 - DALI Dimming

### 2 position retractive switch - Adjusting the switch configuration

- Standalone menu
- Select V3 products, using the navigation arrows
- Scroll down to DD for DALI dimmable and press the right arrow
- Detector parameters- press the right arrow
- Scroll down to config-press the right arrow
- Select channel mode- switch & dim together
- Select switch mode-2 position switch together (factory default)
- Aim the handset at the sensor and press the send button
- The led will flash
- The led will flash

## Application 6 - DALI Dimming and Switching

### 2 x 1 position retractive switches - CH-1 switched, CH-2 DALI dimmable.

- Standalone menu
- Select V3 products, using the navigation arrows
- Scroll down to DD for DALI dimmable and press the right arrow
- Detector parameters- press the right arrow
- Scroll down to config-press the right arrow
- Select channel mode- switch & dim separately
- Select switch mode- 1 position switch separate
- Aim the handset at the sensor and press the send button
- The led will flash

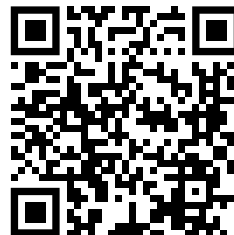
## Applications 8 & 9 - Switching

### 1 position retractive switch

- Select V3 products, using the navigation arrows
- Scroll down to DD for DALI dimmable and press the right arrow
- Detector parameters- press the right arrow
- Scroll down to config-press the right arrow
- Select channel mode- switch only
- Select switch mode- 2 position switch together
- Aim the handset at the sensor and press the send button
- The led will flash

## Commissioning using the HHIR-PROG

For full programming instructions see our install guide here:



Click or scan QR code



# Specification documentation

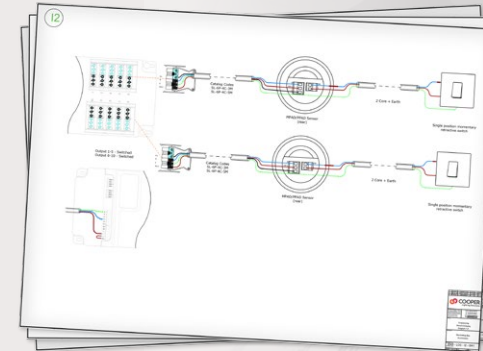
Download everything you need to spec this product and associated system components here:



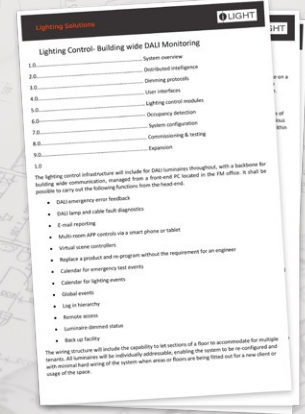
Click or scan QR code



Lighting Control Equipment Schedules

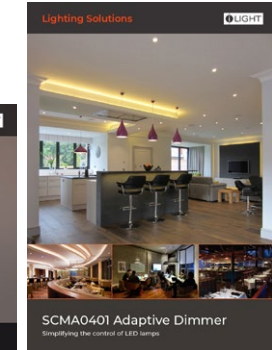
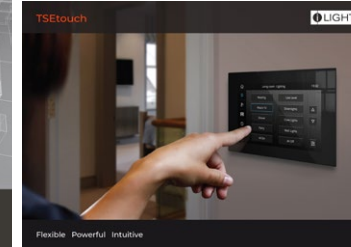
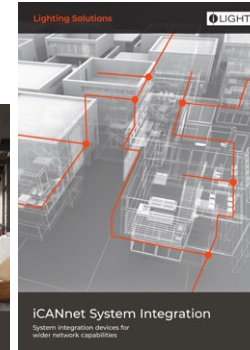
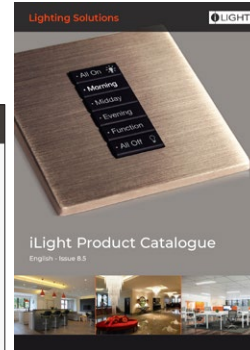
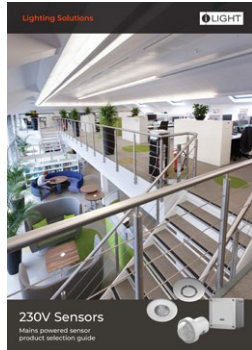


Supporting System Schematics



System Specifications

## Related iLight literature



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