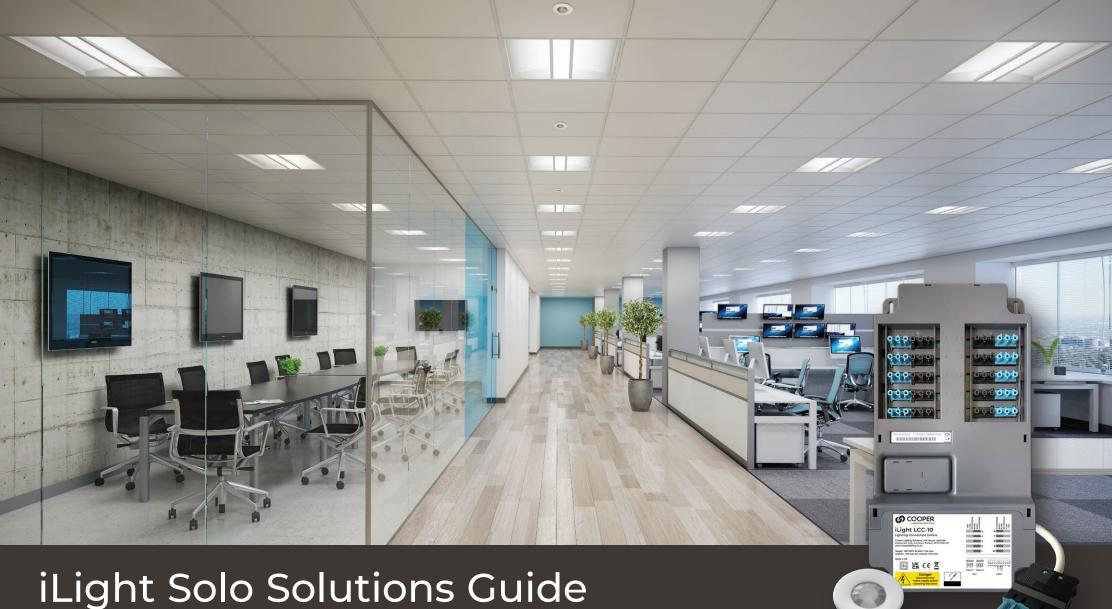
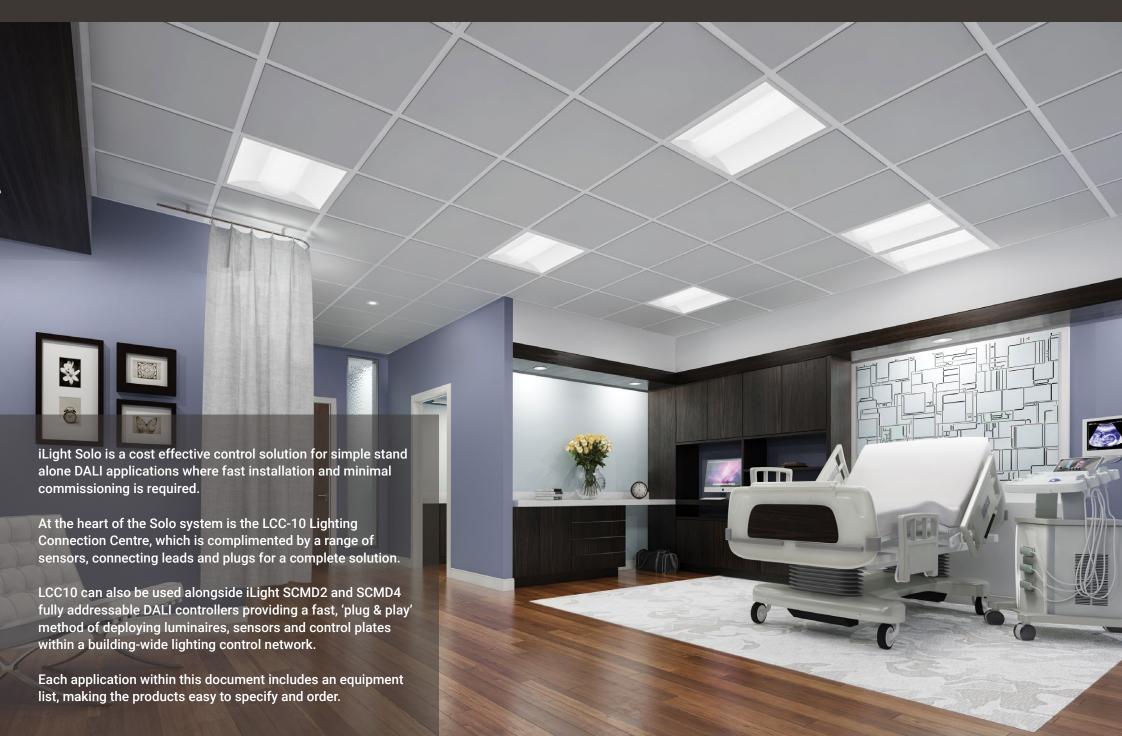
Lighting Solutions





With the LCC-10 Lighting Connection Centre

iLight Solo Solutions Guide



Contents

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

Facilitating pluggable connection of Fully Addressable DALI.

Application 6 - Page 14-15

Facilitating pluggable connection of Fully Addressable DALI with Scene Setting.

Application 7 - Page 16-17

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

Application 8 - Page 18-19

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

Non-Dimmable Applications

Application 9 - Page 20-21

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

Application 10 - Page 22-23

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 11 - Page 24-25

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

Application 12 - Page 26-27

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 luminaries is required.

Emergency Applications

Application 13 - Page 28-29

DALI emergency monitoring - Emergency monitoring system with fast installation.

Application 14 - Page 30-31

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

Application 15 - Page 32-33

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

Application 16 - Page 34-35

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 36-39 IR LCD handset programming guide

HHIR-PROG - Page 39
IR handset programming

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.

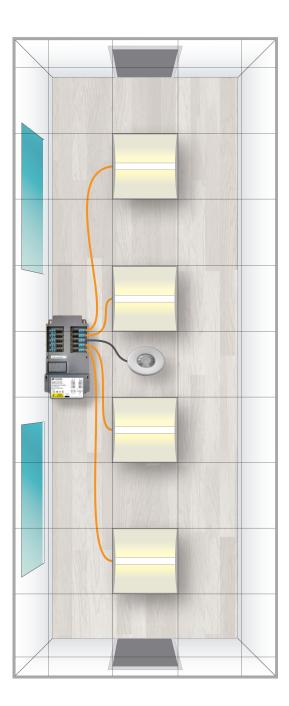
This is ideal for areas where the lights never need switch off and a safe environment with some level of luminance is required.

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

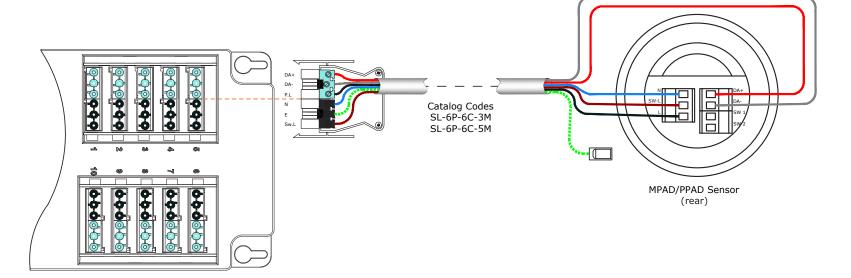




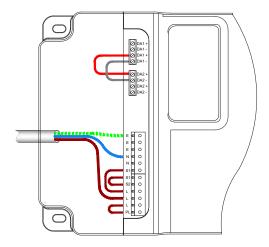




Connection Wiring Diagram



Output 1-10 - Dimmed



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 1.0mm² cable
LUPX-6P-5C-5M	6-pole Luminaire Lead - 5-core 5 metre - Plug to Open Ends 1.0mm² cable
LUPX-6PR-6C-3M	6-pole Luminaire Lead - 6-core 3 metre - Plug to Open Ends - Red Connector 1.0mm²
LUPX-6PR-6C-5M	6-pole Luminaire Lead - 6-core 5 metre - Plug to Open Ends - Red Connector 1.0mm²
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, absence detection and maintained illuminance

A dual position retractive 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

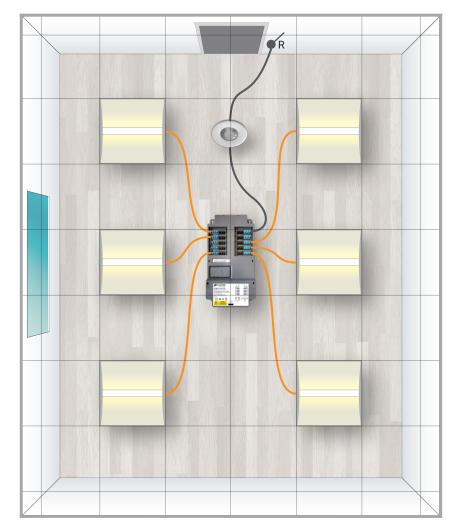




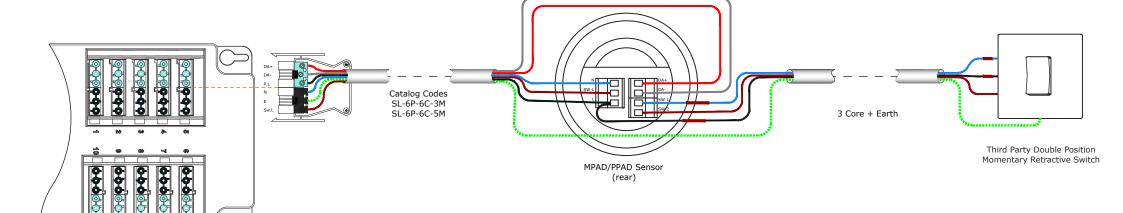




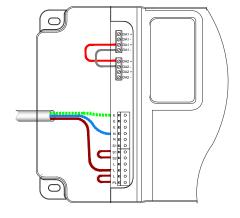




Connection Wiring Diagram



Output 1-10 - Switched/Dimmed



Pluggable Sensor arrangement

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 1.0mm² cable
LUPX-6P-5C-5M	6-pole Luminaire Lead - 5-core 5 metre - Plug to Open Ends 1.0mm² cable
LUPX-6PR-6C-3M	6-pole Luminaire Lead - 6-core 3 metre - Plug to Open Ends - Red Connector 1.0mm²
LUPX-6PR-6C-5M	6-pole Luminaire Lead - 6-core 5 metre - Plug to Open Ends - Red Connector 1.0mm²
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 and absence detection across two rooms

Dual position retractive 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

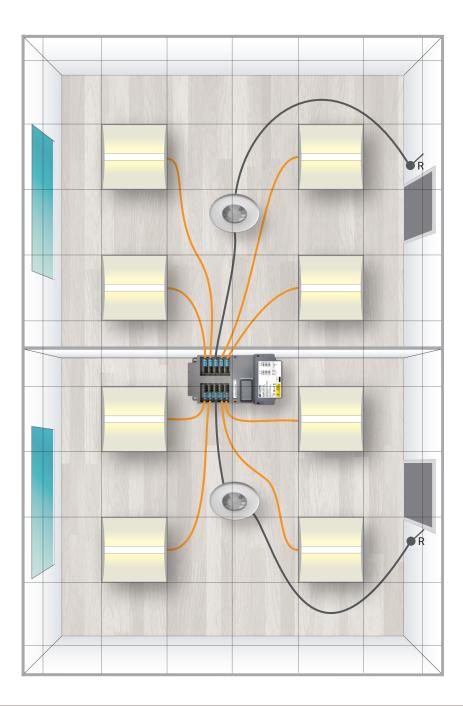


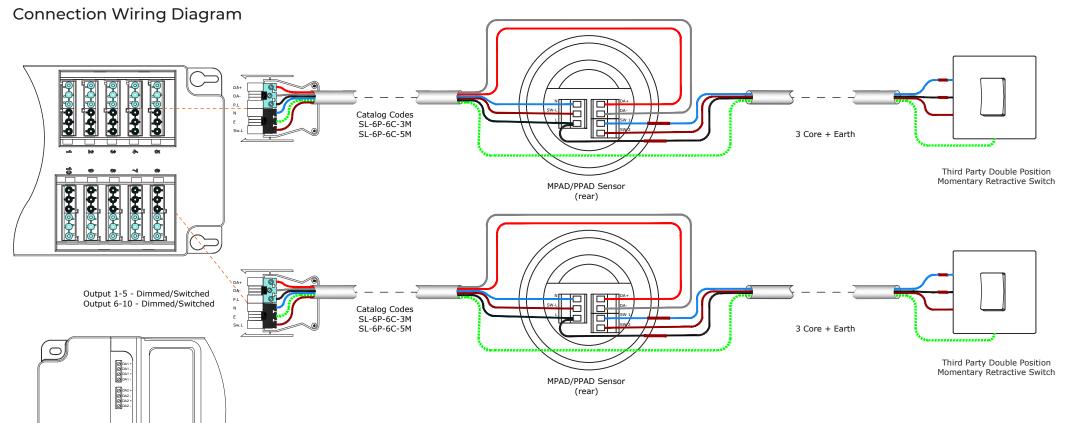












Part Number	Description
LCC-10	10 Output - 6-Pole - Lighting Connection Centre
PPAD-C-DALI-230V	PIR - Presence/Absence DALI Dim & 230V Switching
MPAD-C-A-DALI-230V	Microwave - Presence/Absence DALI Dim & 230V Switching - Adjustable
LUPX-6P-5C-3M	6-pole Luminaire Lead - 5-core 3 metre - Plug to Open Ends 1.0mm² cable
LUPX-6P-5C-5M	6-pole Luminaire Lead - 5-core 5 metre - Plug to Open Ends 1.0mm² cable
LUPX-6PR-6C-3M	6-pole Luminaire Lead - 6-core 3 metre - Plug to Open Ends - Red Connector 1.0mm²
LUPX-6PR-6C-5M	6-pole Luminaire Lead - 6-core 5 metre - Plug to Open Ends - Red Connector 1.0mm²
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, 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.

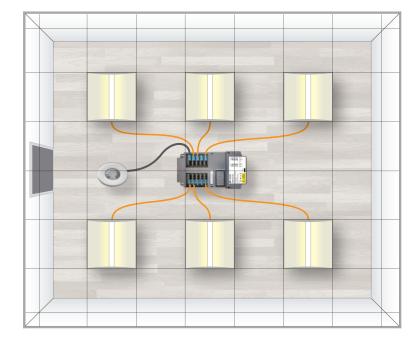
- Stairwells
- Circulation routes
- WCs







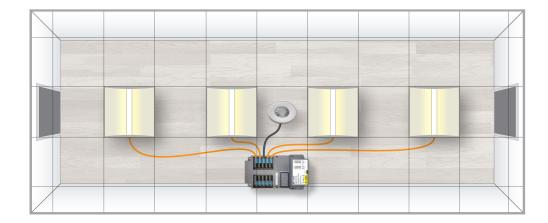




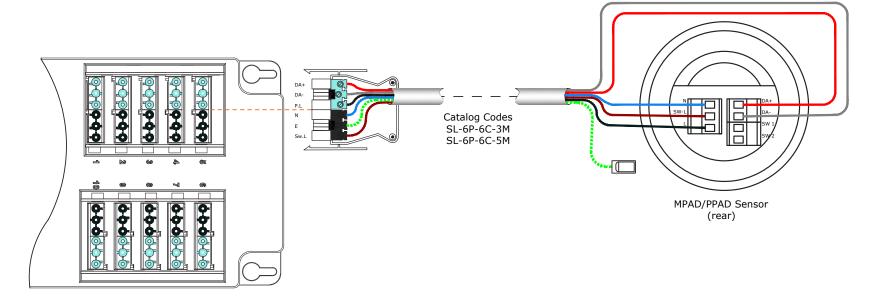




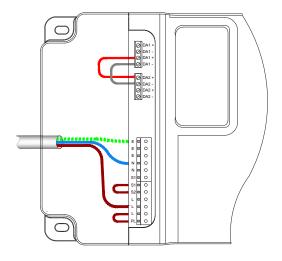




Connection Wiring Diagram



Output 1-10 - Dimmed



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 1.0mm² cable
LUPX-6P-5C-5M	6-pole Luminaire Lead - 5-core 5 metre - Plug to Open Ends 1.0mm² cable
LUPX-6PR-6C-3M	6-pole Luminaire Lead - 6-core 3 metre - Plug to Open Ends - Red Connector 1.0mm²
LUPX-6PR-6C-5M	6-pole Luminaire Lead - 6-core 5 metre - Plug to Open Ends - Red Connector 1.0mm²
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

Fully Addressable DALI

The LCC-10 provides a quick method of installation for the distribution of power and DALI across a floor or area. With ease of installation in mind plentiful Mains and DALI connections are provided in within the wiring compartment of the LCC-10.

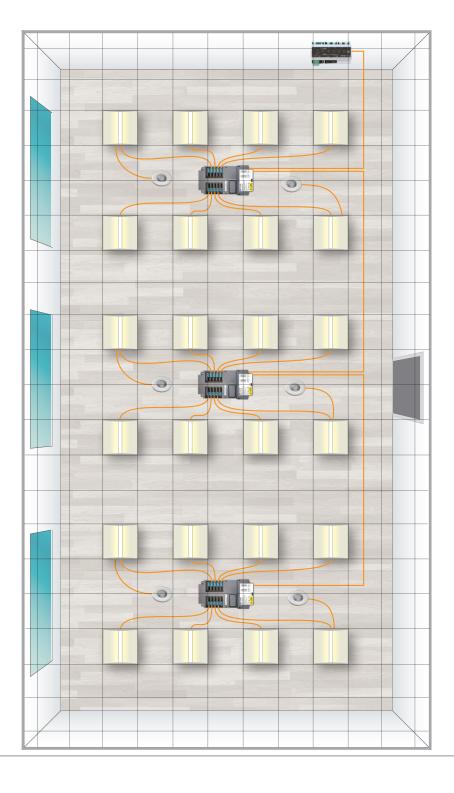
This is ideal for use with the iLight SCMD2 or SCMD4 fully addressable DINrail modules providing a powerful plug and play system.

- Open plan offices
- Cellular offices
- Collaborative Spaces
- Receptions
- Meeting rooms
- Classrooms
- Lecture Rooms
- Event Spaces
- Day Centres

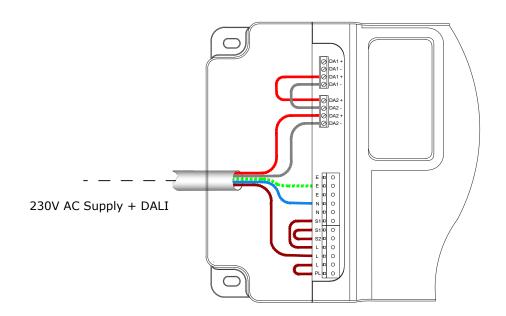








Connection Wiring Diagram



Earth Grn/Yel

Neutral Blue

Live Brown

DALI + Colour Determined by installation

DALI - Colour Determined by installation

Part Number	Description
LCC-10	10 Output - 6-Pole - Lighting Connection Centre
SCMD2	2 Universe DALI Controller - DINrail Mount
SCMD4	4 Universe DALI Controller - DINrail Mount
PPAD-C-DALI-ADDR	PIR - Presence/Absence DALI Addressable
PPAD-C-MB-DALI-ADDR	PIR - Presence/Absence Mid Bay DALI Addressable
LUPX-6P-5C-3M	6-pole Luminaire Lead - 5-core 3 metre - Plug to Open Ends 1.0mm² cable
LUPX-6P-5C-5M	6-pole Luminaire Lead - 5-core 5 metre - Plug to Open Ends 1.0mm² cable
LUPX-6PR-6C-3M	6-pole Luminaire Lead - 6-core 3 metre - Plug to Open Ends - Red Connector 1.0mm²
LUPX-6PR-6C-5M	6-pole Luminaire Lead - 6-core 5 metre - Plug to Open Ends - Red Connector 1.0mm²
SL-6P-2+5C-3M	Sensor Lead - 5-core + Core DALI Sensor - 3 metre Male - Plug to Phoenix Connectors to suit DALI PIR
SL-6P-2+5C-5M	Sensor Lead - 5-core + Core DALI Sensor - 5 metre Male - Plug to Phoenix Connectors to suit DALI PIR
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

Fully Addressable DALI with Scene Setting

The LCC-10 provides a quick method of installation for the distribution of power and DALI across a floor or area. With ease of installation in mind, plentiful Mains and DALI connections are provided within the wiring compartment of the LCC-10.

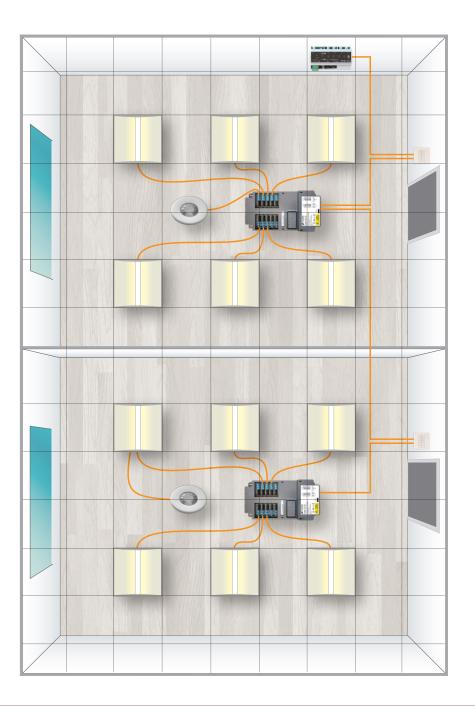
This is ideal for use with the iLight SCMD2 or SCMD4 fully addressable DINrail modules providing a powerful plug and play system. iLight DALI control plates and DALI sensors can also be added to provide occupancy control and scene recall.

- Cellular offices
- Collaborative Spaces
- Receptions
- Meeting rooms
- Classrooms
- Lecture Rooms
- Event Spaces
- Day Centres

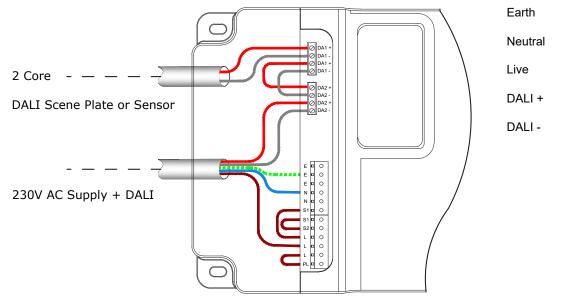








Connection Wiring Diagram



Grn/Yel

Blue

Brown

Colour Determined by installation

Colour Determined by installation

Part Number	Description
LCC-10	10 Output - 6-Pole - Lighting Connection Centre
SCMD2	2 Universe DALI Controller - DINrail Mount
SCMD4	4 Universe DALI Controller - DINrail Mount
CLD	DALI Scene Setting Control Plate
CRP-D	DALI Classic Scene Setting Control Plate
PPAD-C-DALI-ADDR	PIR - Presence/Absence DALI Addressable
PPAD-C-MB-DALI-ADDR	PIR - Presence/Absence Mid Bay DALI Addressable
LUPX-6P-5C-3M	6-pole Luminaire Lead - 5-core 3 metre - Plug to Open Ends 1.0mm² cable
LUPX-6P-5C-5M	6-pole Luminaire Lead - 5-core 5 metre - Plug to Open Ends 1.0mm² cable
LUPX-6PR-6C-3M	6-pole Luminaire Lead - 6-core 3 metre - Plug to Open Ends - Red Connector 1.0mm²
LUPX-6PR-6C-5M	6-pole Luminaire Lead - 6-core 5 metre - Plug to Open Ends - Red Connector 1.0mm²
SL-6P-2+5C-3M	Sensor Lead - 5-core + Core DALI Sensor - 3 metre Male - Plug to Phoenix Connectors to suit DALI PIR
SL-6P-2+5C-5M	Sensor Lead - 5-core + Core DALI Sensor - 5 metre Male - Plug to Phoenix Connectors to suit DALI PIR
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

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 luminaries 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.

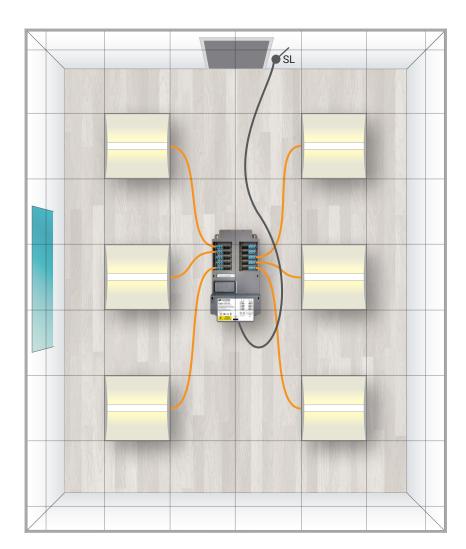
When the switch is pressed and held, it will raise or lower the lighting level. A second press and hold will dim the lighting in the opposite direction, alternating between dim up & dim down. A quick press will switch the lighting on or off.

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

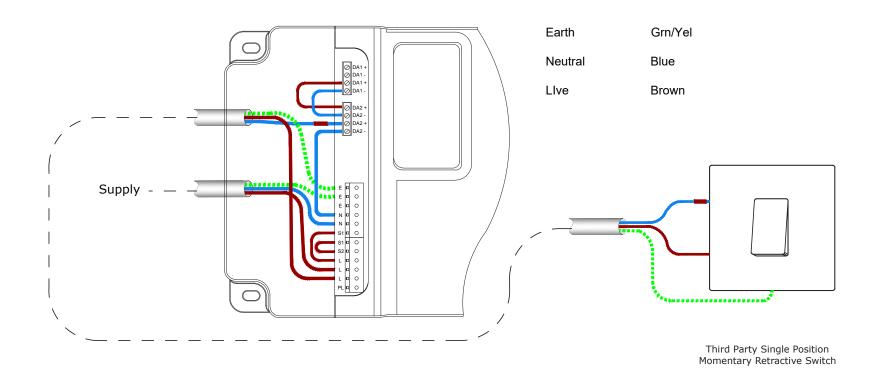








Connection Wiring Diagram



Part Number	Description	
LCC-10	0 Output - 6-Pole - Lighting Connection Centre	
LUPX-6P-5C-3M	6-pole Luminaire Lead - 5-core 3 metre - Plug to Open Ends 1.0mm² cable	
LUPX-6P-5C-5M	6-pole Luminaire Lead - 5-core 5 metre - Plug to Open Ends 1.0mm² cable	
LUPX-6PR-6C-3M	5-pole Luminaire Lead - 6-core 3 metre - Plug to Open Ends - Red Connector 1.0mm²	
LUPX-6PR-6C-5M	6-pole Luminaire Lead - 6-core 5 metre - Plug to Open Ends - Red Connector 1.0mm²	
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, & 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 luminaries alongside windows is required to meet building regulations. The two groups of lights are controlled with two, two position retractive switches, one controlling the dimming, the other the switching.

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

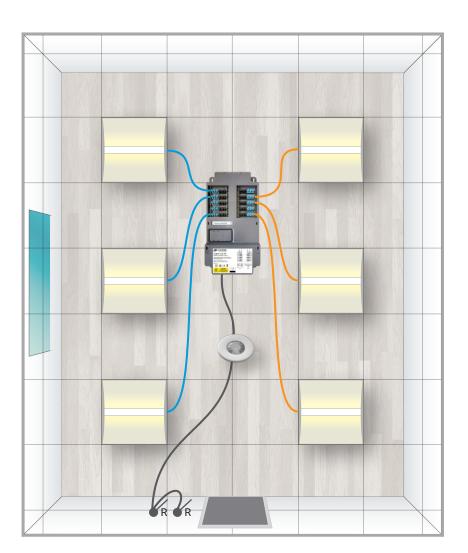
Ideally suited to design & build projects, where DALI is not required throughout.

- Meeting rooms
- Cellular offices
- · Small Receptions

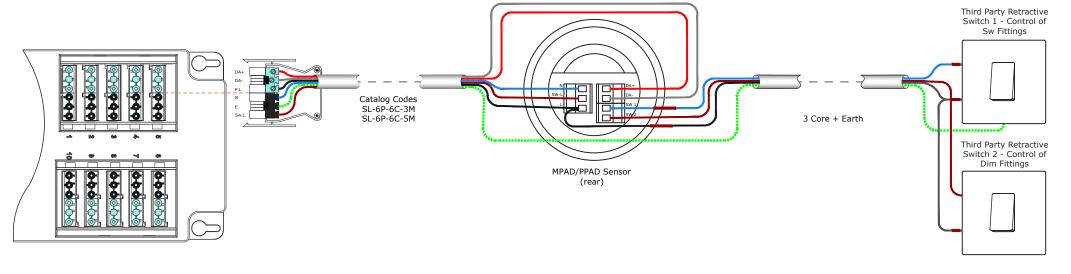




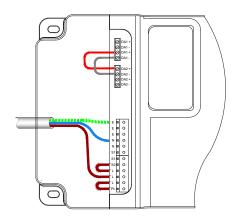




Connection Wiring Diagram



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



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 1.0mm² cable
LUPX-6P-3C-5M	6-pole Luminaire Lead - 3-core 5 metre - Plug to Open Ends 1.0mm² cable
LUPX-6PR-4C-3M	6-pole Luminaire Lead - 4-core 3 metre - Plug to Open Ends - Red Connector 1.0mm²
LUPX-6PR-4C-5M	6-pole Luminaire Lead - 4-core 5 metre - Plug to Open Ends - Red Connector 1.0mm²
LUPX-6P-5C-3M	6-pole Luminaire Lead - 5-core 3 metre - Plug to Open Ends 1.0mm² cable
LUPX-6P-5C-5M	6-pole Luminaire Lead - 5-core 5 metre - Plug to Open Ends 1.0mm² cable
LUPX-6PR-6C-3M	6-pole Luminaire Lead - 6-core 3 metre - Plug to Open Ends - Red Connector 1.0mm²
LUPX-6PR-6C-5M	6-pole Luminaire Lead - 6-core 5 metre - Plug to Open Ends - Red Connector 1.0mm²
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

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.

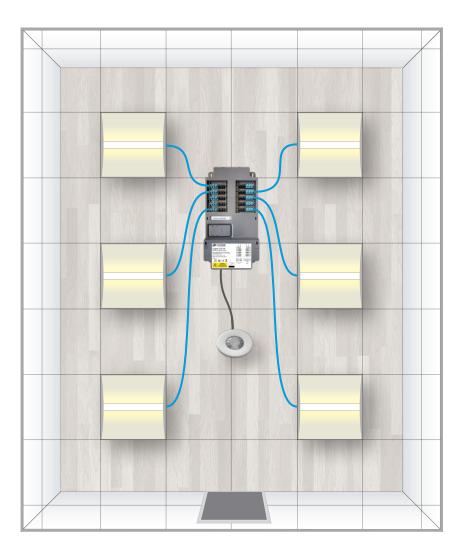
- Warehouses
- WCs
- · Store rooms
- Internal meeting rooms with no daylight
- Lobby areas



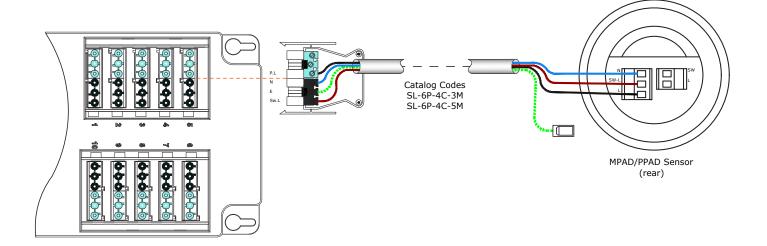




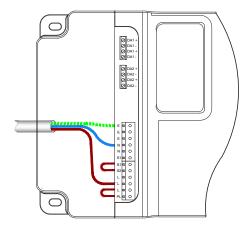




Connection Wiring Diagram



Output 1-10 - Switched



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 1.0mm² cable
LUPX-6P-3C-5M	6-pole Luminaire Lead - 3-core 5 metre - Plug to Open Ends 1.0mm² cable
LUPX-6PR-4C-3M	6-pole Luminaire Lead - 4-core 3 metre - Plug to Open Ends - Red Connector 1.0mm²
LUPX-6PR-4C-5M	6-pole Luminaire Lead - 4-core 5 metre - Plug to Open Ends - Red Connector 1.0mm²
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

Absence Detection On/Off

A single position retractive 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.

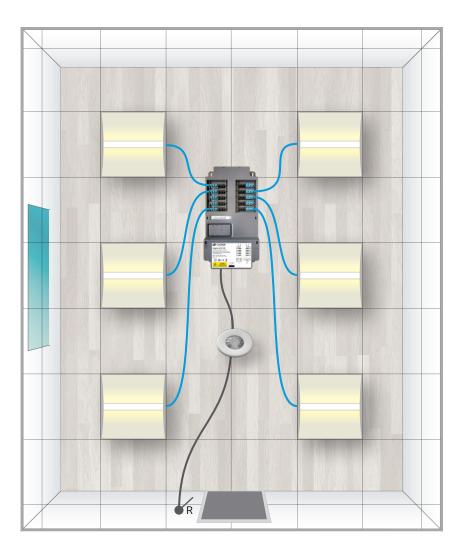
- Meeting Rooms
- Cellular Offices
- Small Receptions
- Patient Rooms
- Doctors Surgeries
- Laboratories
- Consulting Rooms
- Warehouses
- Store Rooms



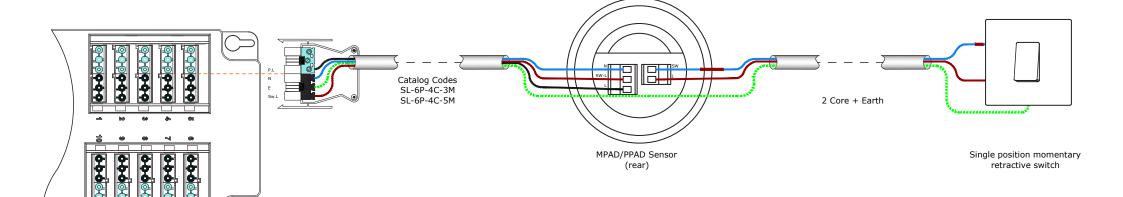




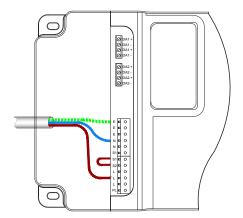




Connection Wiring Diagram



Output 1-10 - Switched



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 1.0mm² cable
LUPX-6P-3C-5M	6-pole Luminaire Lead - 3-core 5 metre - Plug to Open Ends 1.0mm² cable
LUPX-6PR-4C-3M	6-pole Luminaire Lead - 4-core 3 metre - Plug to Open Ends - Red Connector 1.0mm²
LUPX-6PR-4C-5M	6-pole Luminaire Lead - 4-core 5 metre - Plug to Open Ends - Red Connector 1.0mm²
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

Absence Detection Across Two Rooms

Single position retractive 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 - HHIR-LCD-PROG.

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

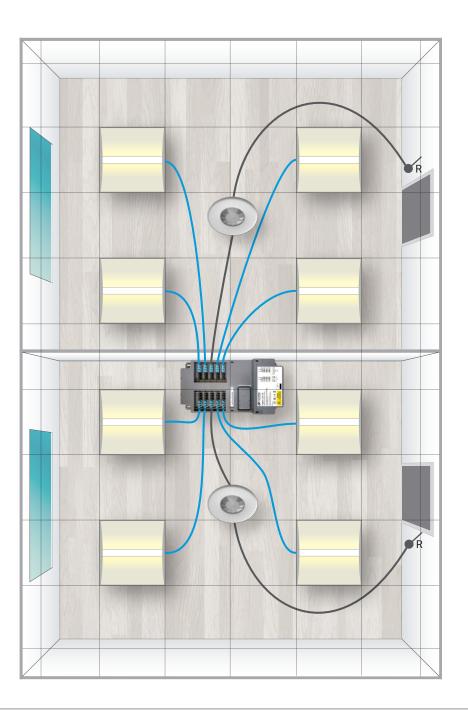
- Meeting Rooms
- Cellular Offices
- · Small Receptions
- Patient Rooms
- Doctors Surgeries
- Laboratories
- Consulting Rooms
- Warehouses
- · Store Rooms

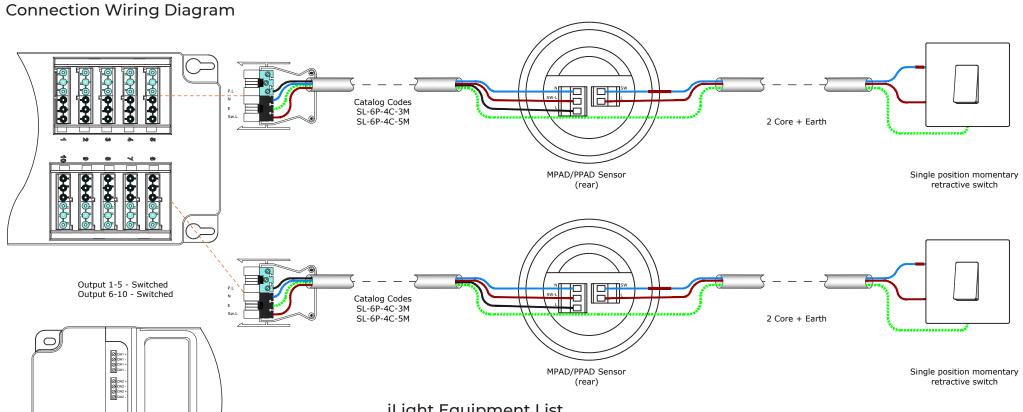












	il	Ligh	าt Eq	uipm	ent	List
--	----	------	-------	------	-----	------

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 1.0mm² cable
LUPX-6P-3C-5M	6-pole Luminaire Lead - 3-core 5 metre - Plug to Open Ends 1.0mm² cable
LUPX-6PR-4C-3M	6-pole Luminaire Lead - 4-core 3 metre - Plug to Open Ends - Red Connector 1.0mm²
LUPX-6PR-4C-5M	6-pole Luminaire Lead - 4-core 5 metre - Plug to Open Ends - Red Connector 1.0mm²
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

Locally switched with no controls

For rooms requiring conventional control the LCC-1 can be employed to provide pluggable connection points for luminaries. 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.

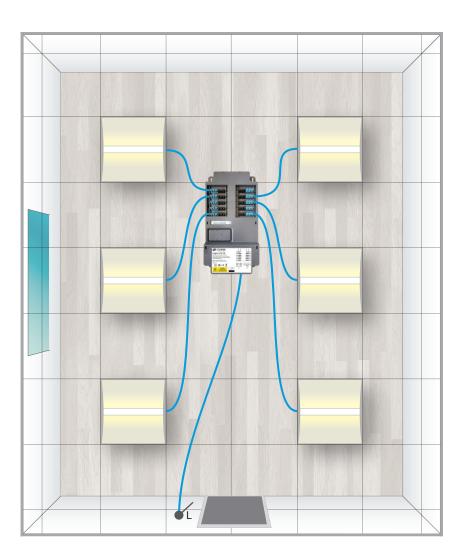
Multiple LCC-10's can be wired in parallel increasing output capability as required.

- Disabled toilets
- Commercial Kitchens
- · Dark rooms

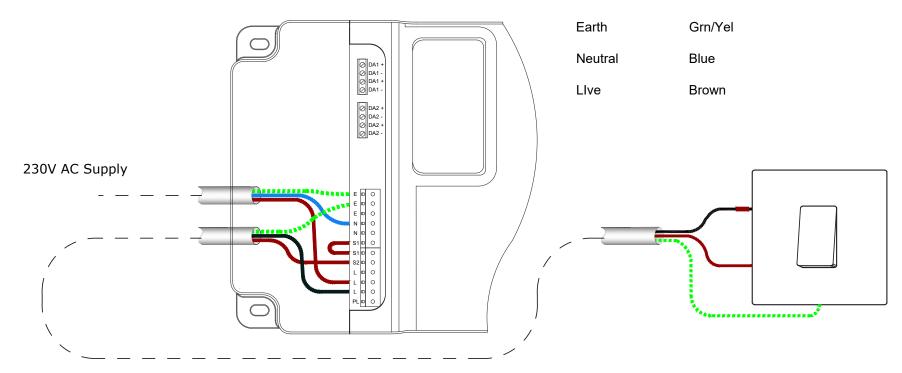








Connection Wiring Diagram



Single position latching switch

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 1.0mm² cable
LUPX-6P-3C-5M	6-pole Luminaire Lead - 3-core 5 metre - Plug to Open Ends 1.0mm² cable
LUPX-6PR-4C-3M	6-pole Luminaire Lead - 4-core 3 metre - Plug to Open Ends - Red Connector 1.0mm²
LUPX-6PR-4C-5M	6-pole Luminaire Lead - 4-core 5 metre - Plug to Open Ends - Red Connector 1.0mm²
HHIR-LCD-PROG	Infrared Programming Handset with LCD display
HHIR-PROG	Infrared Programming Handset

DALI Emergency Monitoring

The LCC-10 provides a quick method of installation for the distribution of power and DALI across a floor or area when linked to a central lighting and emergency monitoring system.

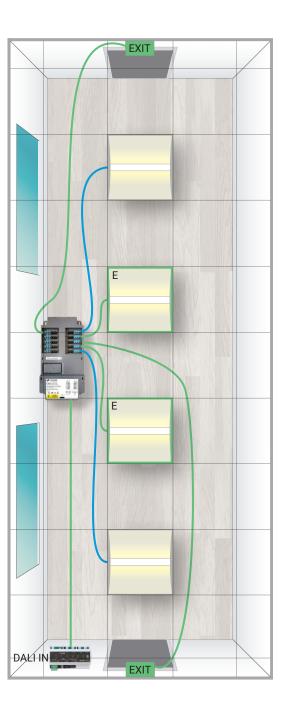
Emergency luminaries can be monitored when DALI inverters or drivers are installed. The fittings can be maintained (normally lit) or Non maintained (not normally lit), including exit lighting, general lighting, and standalone non-maintained LEDs.

- Serviced Apartments
- Circulation spaces
- Corridors
- Stairwells

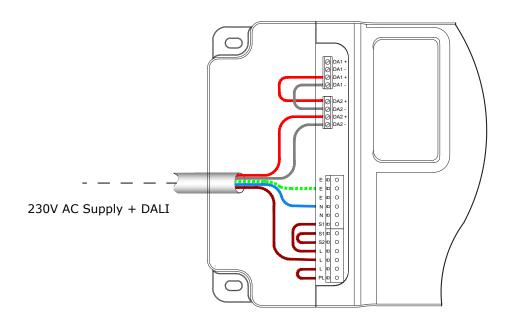








Connection Wiring Diagram



Earth Grn/Yel

Neutral Blue

Live Brown

DALI + Colour Determined by installation

DALI - Colour Determined by installation

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 1.0mm² cable
LUPX-6P-5C-5M	6-pole Luminaire Lead - 5-core 5 metre - Plug to Open Ends 1.0mm² cable
LUPX-6PR-6C-3M	6-pole Luminaire Lead - 6-core 3 metre - Plug to Open Ends - Red Connector 1.0mm²
LUPX-6PR-6C-5M	6-pole Luminaire Lead - 6-core 5 metre - Plug to Open Ends - Red Connector 1.0mm²
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
HHIR-LCD-PROG	Infrared Programming Handset with LCD display
HHIR-PROG	Infrared Programming Handset

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 luminaries to be interrupted for the purpose of testing.

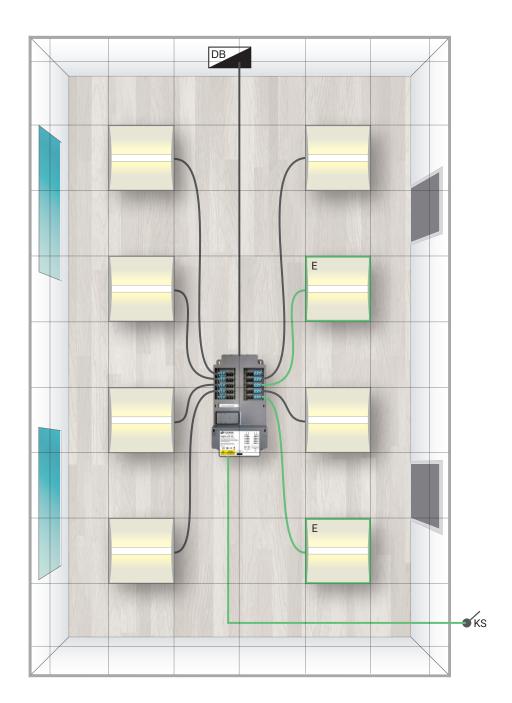
The LCC-10 supports two channels of control and the independent switching and dimming of two groups of five outputs or all ten outputs to be linked. In either configuration all ten outputs are served by the same permanent live.



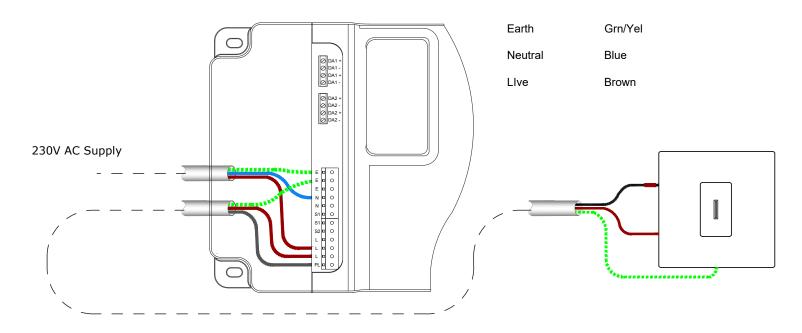








Connection Wiring Diagram



Emergency Test Key Switch

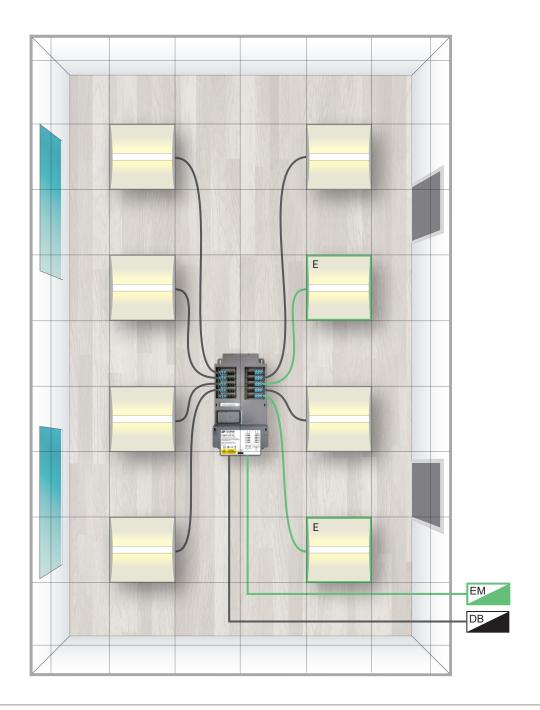
Part Number	Description
LCC-10	10 Output - 6-Pole - Lighting Connection Centre
LUPX-6P-5C-3M	6-pole Luminaire Lead - 5-core 3 metre - Plug to Open Ends 1.0mm² cable
LUPX-6P-5C-5M	6-pole Luminaire Lead - 5-core 5 metre - Plug to Open Ends 1.0mm² cable
LUPX-6PR-6C-3M	6-pole Luminaire Lead - 6-core 3 metre - Plug to Open Ends - Red Connector 1.0mm²
LUPX-6PR-6C-5M	6-pole Luminaire Lead - 6-core 5 metre - Plug to Open Ends - Red Connector 1.0mm²
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 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.

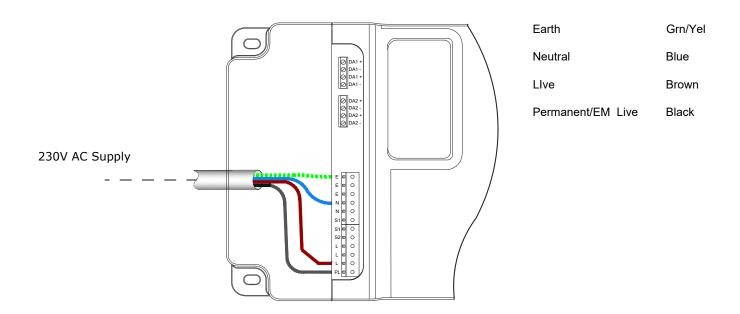
The LCC-10 provides a dedicated terminal for permanent live, allowing for the connection of a separate maintained or specific emergency supply from a central battery system or other un-interruptible source.

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.



Connection Wiring Diagram

Switching Arrangement Dependant on application



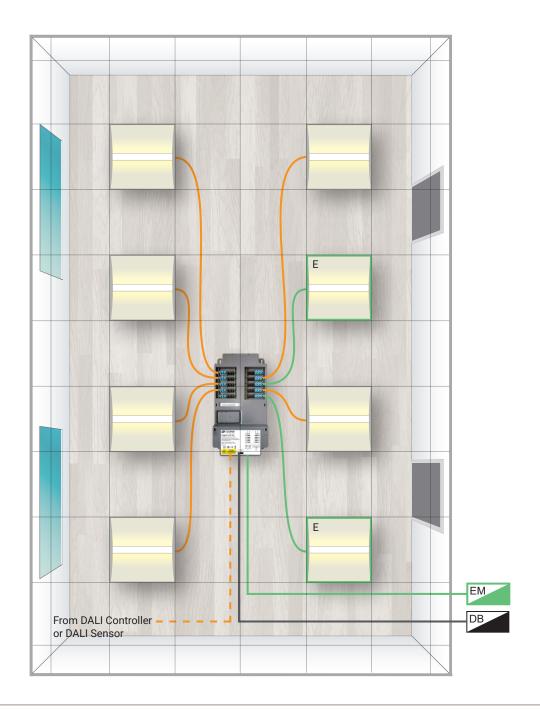
Part Number	Description
LCC-10	10 Output - 6-Pole - Lighting Connection Centre
LUPX-6P-5C-3M	6-pole Luminaire Lead - 5-core 3 metre - Plug to Open Ends 1.0mm² cable
LUPX-6P-5C-5M	6-pole Luminaire Lead - 5-core 5 metre - Plug to Open Ends 1.0mm² cable
LUPX-6PR-6C-3M	6-pole Luminaire Lead - 6-core 3 metre - Plug to Open Ends - Red Connector 1.0mm²
LUPX-6PR-6C-5M	6-pole Luminaire Lead - 6-core 5 metre - Plug to Open Ends - Red Connector 1.0mm²
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 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.

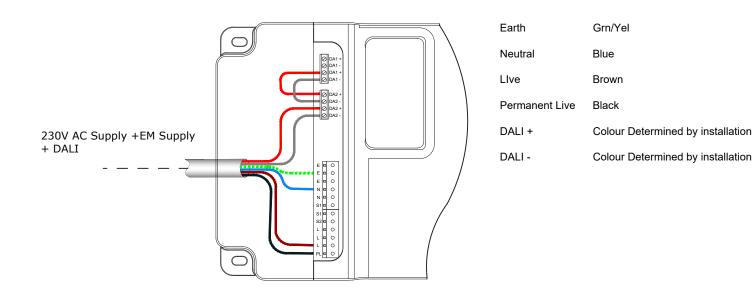
The LCC-10 provides a dedicated terminal for permanent live, allowing for the connection of a separate maintained or specific emergency supply from a central battery system or other un-interruptible source. DALI connections can be made simultaneously to the electrical and emergency supplies.

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).



Connection Wiring Diagram

Switching Arrangement Dependant on application



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 1.0mm² cable
LUPX-6P-5C-5M	6-pole Luminaire Lead - 5-core 5 metre - Plug to Open Ends 1.0mm² cable
LUPX-6PR-6C-3M	6-pole Luminaire Lead - 6-core 3 metre - Plug to Open Ends - Red Connector 1.0mm²
LUPX-6PR-6C-5M	6-pole Luminaire Lead - 6-core 5 metre - Plug to Open Ends - Red Connector 1.0mm²
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



On / Off Button

Press and hold to switch the handset on

Home Button

Takes you back to the beginning of the navigation.

Send Button

Used for sending infra-red commands to the sensor.

+ Yes / - No

Can be used to toggle between absence and presence mode.

Navigate

up/down left/right arrows.

Read Back

Reads back the selected parameters when in the active menu.

Return Key

Press to go back to the previous menu.

Numeric Pad

Used to enter time outs, sensor sensitivity and lux levels.

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

Adjust the sensitivity

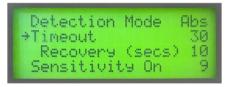
- Go to detector parameters
- Press the down arrow to the sensitivity on or sensitivity off
- Type in the numerical keypad numbers 1 to 9 (9 = max sensitivity)
- Aim the handset at the sensor and press the send button
- The led will flash

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

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











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 iby 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 8 - 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 10 & 11 - 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

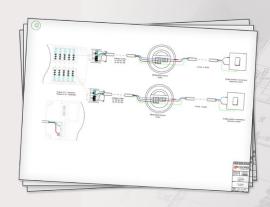
Download everything you need to spec this product and associated system components here:



Click or scan QR code



Lighting Control Equipment Schedules



Supporting System Schematics



System Specifications

Related iLight literature















Contact Us

+44 (0)1923 495495

enquiries@iLight.co.uk

www.iLight.co.uk



A brand of Cooper Lighting Solutions Usk House, Llantarmam Park Cwmbran, NP44 3HD, UK

Changes to the products, to the information contained in this document, and to prices are reserved; so are errors and omissions.

© 2021 Cooper Lighting Solutions All Rights Reserved

iLight is a registered trademark. All other trademarks are property of their respective owners.

iLight Solo Application Guide Rev 5 0621





