



# iLight Product Catalogue

English - Issue 8.4



# iLight Lighting Controls

Creatively translating our clients' lighting visions into reality is at the heart of what we do.

iLight control products can be found in any environment where pre-programmed or timed lighting control is required. There are a huge variety of applications including hotels, restaurants, retail shopping developments, places of worship, conference centres, office buildings, ocean liners, theme parks, 'smart' homes and more.

The intelligence and breadth of our product range is extensive; from powerful yet easy to use software, to elegant control plates and a range of source controllers to dim and control all

load types and save energy. What's more, as our products are both practical and upgradeable, they are easy to install and economical to own.

For more than 40 years our staff have led the way setting exacting standards of service. We pride ourselves on providing rapid response to enquiries, detailed quotations and AutoCAD system drawings as well as our helpful customer support, experienced commissioning teams and flexible 24 hour maintenance contracts to complete the equation.

## The iLight Product Range



Lighting control products can be found in most high quality visual environments including hotels, restaurants, retail shopping developments, places of worship, conference centres, office buildings, ocean liners, theme parks, 'smart' homes and much more.

Based on over 40 years of experience, our solutions are tuned to reflect the needs of the application and the preferences of the customer.

Our powerful, yet easy to use software, graphical interfaces, elegant control plates and behind the scenes management applications are backed up by a team of customer support, and commissioning engineers.

Our extensive range of products will switch or dim to control all load types, bringing high quality environments to life whilst saving energy too.

All our systems are designed to be practical, cost effective to install and easy to live with. The built in flexibility of our distributed intelligence means that systems are both expandable and upgradeable throughout the life of any modern building as it adapts to changing patterns of use.

[iLight.co.uk](http://iLight.co.uk)

## Cooper Lighting Solutions

At Cooper Lighting Solutions, we build forward-thinking lighting solutions that make people's lives safer, while making buildings, homes and cities smarter and more sustainable. We deliver an industry-leading portfolio of indoor and outdoor lighting, lighting controls and smart lighting systems.

We question, we seek and we solve. Because building a better world means asking tough questions and pushing harder for answers. Together with our customers, we create solutions that build a better world. At Cooper Lighting Solutions, we push past the ordinary to build brighter.

[cooperlighting.com](http://cooperlighting.com)

### Zero 88

Entertainment lighting control equipment and software for theatrical and performance applications around the world.

- Lighting consoles and power control
- Colour changing LED controls
- Control of moving and effect lighting

[zero88.com](http://zero88.com)

### Greengate

Global offering of energy management lighting controls for commercial and industrial applications for both the 230V & 110V markets.

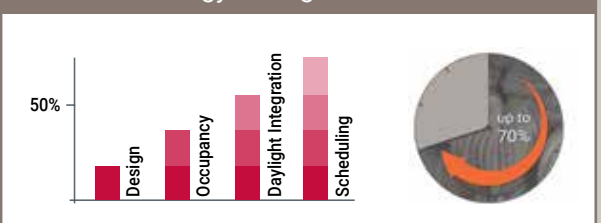
- Flexible, scalable lighting control networks
- Occupancy sensors
- Daylight harvesting

[greengatecontrols.co.uk](http://greengatecontrols.co.uk)

### Lighting Controls Code Compliance

- Improves BREEAM & LEED scoring for building sustainability.
- Contributes to energy reduction targets under Climate Change Levy (CCL) and Carbon Reduction Commitment (CRC).
- Qualifies for Enhanced Capital Allowance (ECA) applications.
- Delivers lighting control requirements under UK Building Regs - L2a & L2b and BRE: 498.

### Achievable Energy Savings



# User Interfaces

iLight user interfaces are flexible, powerful and easy to use. The simplicity of one button push hides the intelligence and sophistication of the iLight control system behind it; no matter how complex the change.

A single button may instigate a series of timed events, colour changes or dynamic effects, or simply select pre-set levels and scenes to make great lighting design repeatable time after time.

Control plates may be configured to match virtually any specification or finish. Touchscreens extend control capabilities with custom graphics and multiple pages to deliver against the most demanding customer requirement. All standard panels are supplied pre-loaded with a basic program for immediate use and to allow on-site testing prior to commissioning.

iLight control plates also integrate with Audio Visual and Building Management Systems for an elegant, seamless building wide control solution.



## Sencia

Sencia is a range of highly refined control plates designed for good looks and flexibility.

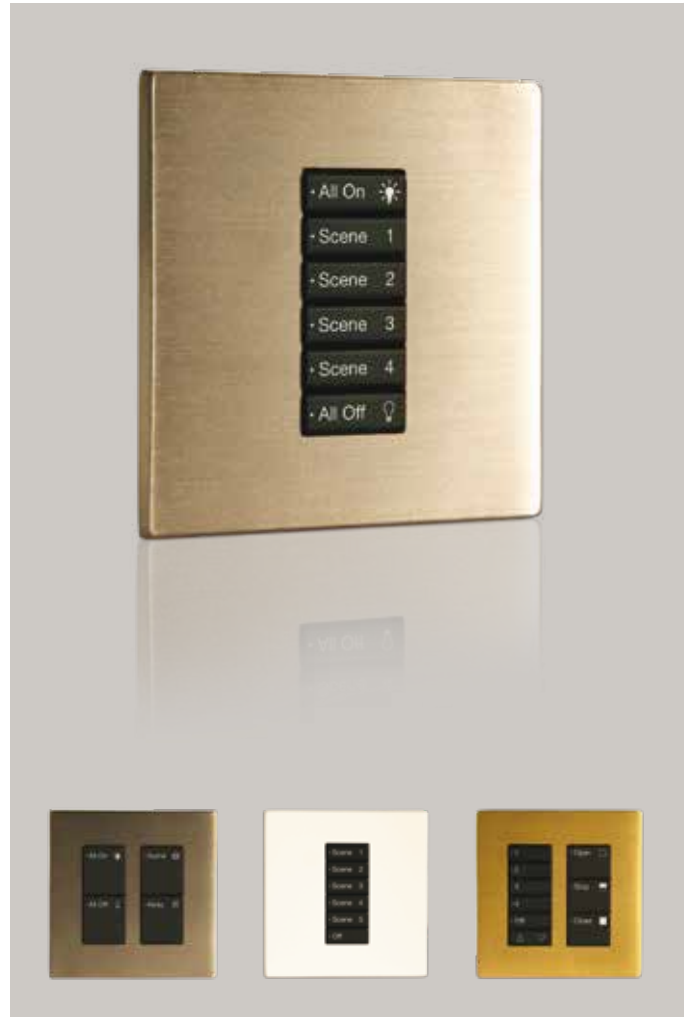
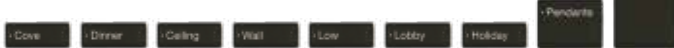
Text legends are backlit, with engraved text or graphic legends. The ultraflush buttons are individually dimmable to user requirements. Day mode provides clear illumination whilst night mode dims buttons down to a soft non invasive light level. As well as a wide range of standard button legends, custom text and graphics can also be provided.

Buttons come in four sizes which can be used to populate either single or double column plate formats. A maximum of 12 single height buttons can be used where multiple scene control is required. Alternatively double or triple height buttons could be used to help differentiate eg. blind control functions. With white illumination as standard, button caps can also be removed to insert a colour filter to change the button colours to a range of 6 standard hues.

### Key Features

- Up to 12 configurable push buttons with integral LED backlighting on a single gang plate.
- Integral programming point.
- Fully configurable functionality including room joining, sequencing and programmable logic functions.
- Flash memory for future proof upgradeability.
- Variable fade times: 0.1 seconds to 60 minutes per button.
- Dimensions: 86mm (h) x 86mm (w).
- Compatible with both standard UK back box (35mm) and European back box (40mm).
- 12Vdc powered direct from iLight network.

### Custom Backlit Button Engraving Examples



## DALI

DALI control plates are available in several configurations which include the use of a large on/off button control with associated up/down adjustments and a choice of large and small buttons. Individual buttons have backlight indicator lights and strong tactile feedback. There is also a custom button engraving service making DALI control plates fully flexible to meet the needs of your project.

### Key Features

- Integrated DALI communication interface.
- Draws power from the DALI communications bus to simplify wiring.
- Available in Black or White finishes.
- Standard or custom engraving on buttons.
- Compatible with standard UK back box (35mm).
- Dimensions: 86mm (h) x 86mm (w).

### Custom Button Engraving Examples



# User Interfaces

## Classic



Classic control plates are supplied with a choice of Series 2 or Series 3 face plates in different finishes and configurations and with integral blue LED indicators.

Classic control plates are modular in design and are therefore completely flexible. Hardware provision allows any single gang panel to have up to 10 buttons (A double gang version is available with up to 20 buttons). This means that if control requirements of an installation change during its lifetime, buttons may be easily added or removed. All that is required is a new faceplate to match the new button configuration and a reprogram of the control plate functionality.

### Key Features

- Screw type (Series 2) or Screwless (Series 3) fixing.
- Up to 10 buttons with integral LED indicators on a single gang plate and up to 20 buttons on the double gang plate.
- Integral RJ12 programming point and optional IR remote control receiver (not available with fully populated 10 or 20 button plate).
- Fully configurable functionality including room joining, sequencing and programmable logic functions.
- Keyswitch inputs.
- Flash memory for future proof upgradeability.
- Variable fade times: 0.1 seconds to 60 minutes per button.
- Dimensions: 86mm (h) x 86mm (w). Single Gang & 86mm (h) x 146mm (w) Double Gang.
- Fits standard 35mm deep UK back box.
- 12Vdc powered direct from iLight network.

### Custom Button Engraving Examples



## Ineo



Ineo control plates are a versatile range of specification grade control plates that set new standards in intuitive layout and operation. Users are quickly drawn to the large on/off button controls with associated up/down adjustments. Plates may be ordered engraved in up to 10 standard layouts. There is even a choice of button size and colour.

### Key Features

- Available in Black, White & Ivory finishes.
- 10 standard plate layouts.
- Each button individually configurable via iCANsoft.
- Variable fade times: 0.1 seconds to 60 minutes per button.
- Built-in infrared receiver with learnable remote codes.
- Flash memory for future proof upgradeability.
- Buttons include Scene, Raise, Lower, On, Off functionality.
- 12Vdc powered direct from iLight network.
- 16 Sequences with up to 128 steps per sequence.
- Choice of large or small button caps.
- Standard or custom engraving on buttons.
- Tap on/off feature to override fade time.
- All plastic construction with a separate snap-on surround.
- Dimensions: 121mm (h) x 83mm (w).
- Requires NEMA (US Style) back box 77mm (h) x 51mm (w) x 64mm (d). Order separately.

### Custom Button Engraving Examples



## Revio

Revio control plates are highly intuitive user interfaces that provide advanced lighting control in a high-tech design. This control plate eliminates end user confusion by combining an easily identifiable power button with a light icon at the centre of a rotary control, with up to 8 touch sensitive buttons under a customisable descriptive insert. While traditional rotary dimmers control just one area of lights, the Revio rotary dimmer controls multiple groups of lights either individually or together.

### Key Features

- 8 touch sensitive backlit switches with the selected scene brightly lit.
- Audible feedback when a switch is activated.
- Rotary control provides raise / lower function.
- Variable fade times: 0.1 seconds to 60 minutes per button.
- Built-in infrared receiver with learnable remote codes.
- Flash memory for future proof upgradeability.
- 16 Sequences with up to 128 steps per sequence.
- Labelling, color, style, language and logos completely customisable.
- 12Vdc powered direct from iLight network.
- Tap on/off feature to override fade time.
- Dimensions: 123mm (h) x 70mm (w).
- Requires NEMA (US Style) back box: 77 (h) x 51 (w) x 64mm (d). Order separately.

### Custom Printed Inserts



Touch Sensitive Buttons

Revio's printed inserts are capable of describing the unique zone or scene configurations of any project. The insert is covered in UV-protected, clear plastic providing longevity of graphics and a surface that can be wiped clean. From subtle tones to match interior decoration to personalised themes.

## Smartphone & Tablet Apps

iLight mobile applications for iPhone®, iPod touch®, iPad® and Android now bring fast and intuitive control of a complete lighting system to a hand held device. Navigate floors and rooms to choose, adjust and save lighting scenes with simple touch control operation.

Mobile applications must be used in conjunction with iLight EG2 and EG2-NA Ethernet Gateway devices for network access.

At turn on, the network will recognise each mobile device and auto populate with the latest layout, scene and level settings for immediate use. Networks require initial commissioning and setup.

Installations may support multiple devices and varying security levels permitting only authorised user to make alterations.

Screen views can be personalised with custom background images via the mobile device. Area, room and floor labels may be individually tailored for the installation at setup.

Application includes demo program to preview and learn operational capabilities prior to commissioning.

 <http://www.apple.com/itunes>

 <https://play.google.com/store/apps>



# User Interfaces

## TSE55 & TSE80 Ultra High Resolution Colour Touchscreens



TSE80

### Key features

- Ultra high resolution intuitive capacitive touch screen.
- Customisable screens & buttons.
- Choice of themes and templates.
- Navigational swipe.
- Multilevel security functions.
- Astronomical time clock .
- Power over Ethernet (PoE).

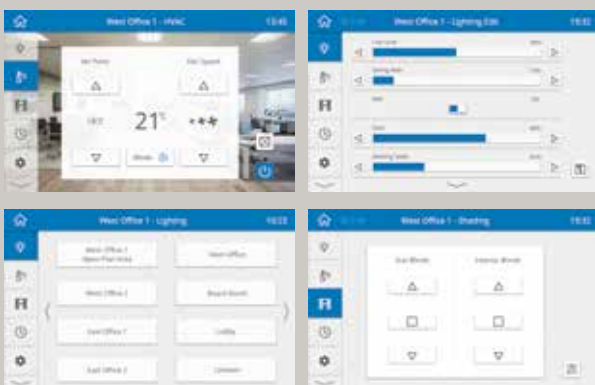
### TSE80

- 8" (203.2mm) diagonal backlit capacitive LCD touchscreen.
- 1280 X 800 pixel resolution.
- Colour Depth: 16.7M colours, 400 nits brightness.
- Touchscreen Dimensions: 148mm (h) x 223mm (w).
- Fits US NEMA 2 gang back box.

### TSE55

- 5.5" (139.7mm) diagonal backlit capacitive LCD touchscreen.
- 1280 X 720 pixel resolution.
- Colour Depth: 16.7M colours, 450 nits brightness.
- Touchscreen Dimensions: 87mm (h) x 148mm (w).
- Fits standard UK single gang back box, standard European single gang back box or standard US NEMA single gang back box. Minimum depth: 47mm.

### Custom Graphic Examples



A single touch is all you need for intuitive control of your living and working spaces. TSEtouch puts you in charge of all your intelligent building systems including lighting, shading, heating and cooling.

The capacitive touch screen is fully customisable and easy to use, navigating you through your own personalised menus for adjusting and saving your settings.

These elegant, ultra high resolution screens deliver a satisfying user experience, combining all your primary building controls. They are completely software based, and programs can be tailored to suit the precise needs of the user. The touch screen can also be used to provide control of other integrated systems such as curtains and blinds and HVAC.

TSE55 & TSE80 connect to the iLight network using a TSI-1 touchscreen interface which can connect multiple TSE screens and mobile devices running the TSEtouch app.



TSE55

### Functionality

- Adjust and save light levels.
- Heating & cooling control.
- Shade and blind control.
- Schedule events and actions.
- Building wide control across multiple rooms and spaces.
- Dedicated mobile app.





## TSC30 & TSX30 Mini Colour Touchscreens

The TSC30 & TSX30 mini colour touchscreens incorporate customisable graphics which allows the user to create the look and feel of their screen. From a welcome page in a hotel suite that includes a background image of the hotel, to a minimalist theme for a home cinema room, the LCD touch screen can be tailored for you. A full choice of fascia colours and metal finishes are available as well as a range of graphic 'themes' to compliment your design scheme.

### Key features

- TFT LCD screen with analogue touch overlay.
- 65000 Colours available.
- Selection of fascia finishes with screwless fixing.
- Supplied with basic configuration installed.
- Standard buttons and backgrounds supplied with configuration software.
- All graphics and buttons can be customised.
- Programmable backlight level to automatically reduce screen brightness to a non-intrusive level after time out period.
- Password feature to allow different access levels.
- Up to 250 pages depending on graphics used.
- Touchscreen Dimensions: 86mm (h) x 146mm (w).
- Fits standard UK double gang backbox.

### Functionality

- Building wide control across multiple rooms and spaces.
- Full graphical 'tell back' control of each and every circuit.
- Full scene set programming functions with "PIN" security options which allows the user to adjust preset levels on lighting scenes.
- Ability to input customers' graphics and building plans to provide a bespoke interface.
- Easy to use software for programming via built-in USB port.

### Custom Graphic Examples



TSC30 - Designed to compliment the Classic Range

TSX30 - Designed to compliment the Sencia Range



# Control Plate Styles, Finishes & Configurations

## Classic Plate Configuration Examples



**CSR023-SD**  
2 button Series 3 plate with satin desert brass finish.



**CSR023-AB**  
2 button Series 3 plate with antique bronze finish. (Custom layout)



**CSR053-MS**  
5 button plate with mirror stainless steel finish. (Custom engraving)



**CSR053-AR**  
5 button Series 3 plate with antique brass finish.



**CRP043-SS**  
4 button Series 3 plate with satin stainless steel finish.



**CRP073-W**  
7 button Series 3 plate with a white finish. (Custom white buttons)



**CRP073-PB**  
7 button Series 3 plate with polished brass finish.



**CSR092IPB**  
9 button Series 2 plate with IR receiver and polished brass finish.



**CSR093-KMS**  
5 button double gang plate with key switch function. (Custom engraving).



**TSC30-W**  
Mini Colour Touchscreen with white surround. Designed to compliment the Classic range.

### Finish Codes



**PB** Polished Brass



**PD** Polished Desert Brass\*



**AB** Antique Bronze\*



**BN** Bright Nickel\*



**SS** Satin Stainless Steel



**SN** Satin Nickel\*



**MS** Mirror Stainless Steel



**QZ** Quartz\*



**SL** Satin Silver\*



**DG** Desert Gold\*



**AR** Antique Brass\*



**LB** Light Bronze\*



**AC** Antique Copper\*



**MB** Matt Black\*



**AS** Antique Silver\*



**W** White



**SD** Satin Desert Brass\*



**CW** Cream White\*

\* These finishes are special order and can take a longer lead time. Classic Plates are also available in an etched primer finish ready to be colour matched to a particular RAL colour.

## DALI Plate Configuration Examples



**CLD-6SB-W**  
6 small scene buttons with white finish



**CLD-2LB-RL-B**  
2 large scene buttons, raise and lower buttons with black finish

### Finish Codes











**B** Black



**W** White

## Sencia Plate Configuration Examples

### Finish Codes

	PB	Polished Brass
	SB	Satin Brass*
	BS	Brushed Stainless Steel
	BC	Bright Chrome
	BB	Brushed Antique Brass*
	BK	Black Nickel*
	B	Matt Black*
	W	White



**SSR-6SB-6SB-BS-CUSTOM**  
12 button plate with brushed stainless steel finish.



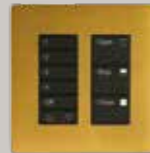
**SRR-5SB-RL-PC**  
4 scenes, off, raise and lower plate in polished chrome



**SRR-6SB-6SB-PC-CUSTOM**  
12 button custom plate with raise and lower function.



**SSR-2LB-2LBLB-BS-CUSTOM**  
4 large button 'Front Door' style plate.



**SRR-5SB-RL-3MB-BB**  
4 scene, off, raise, lower and blind control.





**SSR-6SB-W**  
5 scene and off, standard scene control plate in white finish.



**TSX30-BS**  
Mini Colour Touchscreen with a brushed stainless steel surround. Designed to compliment the Sencia range.

## Ineo Configuration Examples

### Finish Codes

	B	Black
	W	White






**CLS-2LB-RL-B-IR**  
Ineo control plate, 2 big buttons, raise/lower, on/off and integral IR in a black finish.



**CLS-4SB-RL-W-IR**  
Ineo control plate, 4 small buttons, raise/lower, on/off and integral IR in a white finish.

## Revio Configuration Examples

### Finish Codes

	B	Black
	W	White
	G	Grey



**CLV-44Z-RL-G-IR**  
Revio control plate, 4 buttons + 4 zones and integral IR in a grey finish.



**CLV-44Z-RL-B-IR**  
Revio control plate, 4 buttons + 4 zones and integral IR in a black finish.

# Software

## Enterprise Software Suite

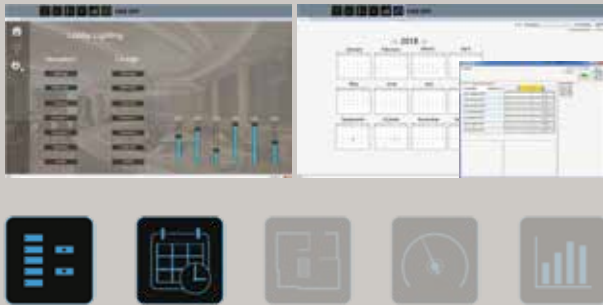


Enterprise Suite is a set of software packages for the control and operation of iLight lighting control systems. There are three packages available with different levels of control capability to cater for even the most demanding lighting control applications.

Enterprise Operate is designed to give powerful user control through a simple intuitive customised graphical interface. Actions may be manually controlled or scheduled for specific day/dates and times using the powerful astronomical timeclock scheduler.

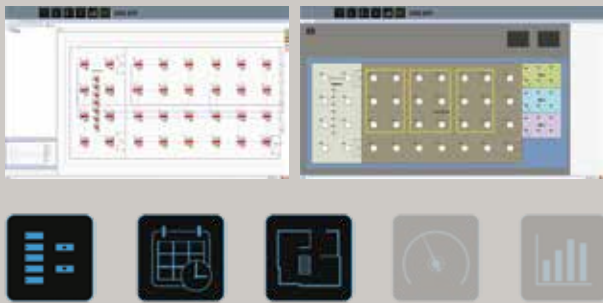
Enterprise Floorplan adds the ability to import building and campus wide floor plans for additional control and feedback on system health.

Enterprise Suite Complete with Server includes energy usage displays and advanced graphs for greater insight into system energy consumption.



### Enterprise Operate

The first level package is Enterprise Operate which consists of a fully configurable and customisable graphical user interface running on a PC or PC touch tablet. Screen pages can be custom designed to give powerful operator control of the lighting scenes in multiple areas and with the in built event scheduler, programming timeclock events provides a sophisticated level of automation.



### Enterprise Floorplan

The second level software package includes Floorplan control. Floorplans can be imported into the software after commissioning stage to display a visual overview of the lighting network fitting by fitting. Lights can be controlled via this view and the network can be monitored for potential lamp failures and network faults. Enterprise Floorplan also includes the Enterprise Operate and Event Scheduler functions from the first level package.



### Enterprise Suite Complete

The complete Enterprise Suite adds energy consumption dials and advanced graphs to provide a comprehensive insight into the live operation of the lighting system. Graphical displays show calculated energy use in all areas while advanced graphs and reports show power usage and trending over time for analysis to help optimise energy usage. Enterprise suite is always delivered as a complete package loaded onto a suitably sized Windows Server.

# Source Controllers - DINrail Mounted

## Complete Panel Solutions

iLight panel solutions offer the ultimate in complete project flexibility with peace of mind. Utilising Cooper Lighting Solutions' in-house design, manufacturing and testing facilities, DINrail modules may be combined with an extensive range of enclosures, switch gear and control modules to deliver a complete, ready to install panel solution.

iLight offers a comprehensive range of module options for controlling lighting, shading and HVAC as well as integrating with AV and BMS. Multiple panels are networked to enable system wide visualisation, management and monitoring.

From a single room solution to the largest office campus, hospitality project or even a complete airport, iLight have a proven track record for delivering customised panels for projects of all scales and complexities.



## DINrail Module Range



The iLight DINrail range provides a multitude of control capabilities

- Lighting load dimming with Leading edge, Trailing edge, Broadcast and fully addressable DALI, 1-10V, DSI and DMX512
- Control of all lamp types including LED, Incandescent, Fluorescent, Cold Cathode, Discharge (Metal Halide) as well as LED drivers, magnetic and electronic low voltage transformers.
- High power feed through relays for power switching of non dim loads
- Change over relays for curtain and blind control
- Interfacing with third party systems using RS232, RS485, KNX via KNX Gateways, Ethernet, BACnet, Modbus, LON



# Source Controllers - DINrail Mounted

## DINrail Range - Direct iCAN Network Connection

### SCMD4



- 4 universe addressable DALI controller
- 64 groups per DALI universe
- iCANnet, DMX or RS485 control
- Alarm input
- Dimensions: 159x90x58 mm
- Weight: 0.35 Kg

### SCMD2



- 2 universe addressable DALI controller
- 64 groups per DALI universe
- iCANnet control
- Dimensions: 159x90x58 mm
- Weight: 0.35 Kg

### SCMH1200



- 12 channel digital dimming controller configured for Broadcast DALI, DSI or 1-10V output
- iCANnet or DALI control (12 addresses)
- Dimensions: 212x90x58 mm
- Weight: 0.35 Kg

### SCMR0432



- 4 x 32 Amp feed through relay controller
- Max total load 64A
- iCANnet control
- Dimensions: 73x90x58 mm
- Weight: 0.3 Kg

### SCMR1232



- 12 x 32 Amp feed through relay controller
- Max total load 192A
- iCANnet or DMX or DALI control (12 addresses)
- Dimensions: 212x90x58 mm
- Weight: 0.8 Kg

### SCMA0401



- Compact 4 x 1 Amp mains dimmer optimised for LED loads
- Channel pairing for 2A loads
- Selectable dimming modes – "iLight Adapt" trailing edge, leading edge and switched
- Scalable dimming curve to optimise the usable dimming range of a load
- No minimum load
- Quiet dimming operation
- DALI Input (4 individual DALI addresses)
- Dimensions: 159x90x60 mm
- Weight: 0.2 Kg

### SCMA0402



- 4 x 2 Amp adaptive leading or trailing edge source controller
- Max total load 10A
- iCANnet control
- Dimensions: 229x90x49 mm
- Weight: 1 Kg

## DINrail Range - Master & Output Modules

The MPM2400 Master Control unit is complemented by a range of low cost power modules which can be used to create a user specified solution. Modules include a choice of a 4 channel leading edge controller (SCMI), a 4 channel digital dimming controller for DALI/DSI/1-10V (SCMH), 4 & 8 channel power relay units (SCMS) and a 4 channel change over relay controller for curtain and blind control (SCMC).

- Master control of up to 48 channels of switching and dimming
- Built in system power supply
- Use with SCMI, SCMS, SCMC & SCMH modules
- Dimensions: 159x90x58 mm
- Weight: 1 Kg

Master (MPM)



**MPM2400**

- 4 x 2 Amp inductive leading edge source controller
- Max total load 5A
- Dimensions: 159x90x58 mm
- Weight: 1 Kg

Connects to MPM



**SCMI0402**

- 4 x 10 Amp switching source controllers
- Max total load 16A
- Dimensions: 159x90x58 mm
- Weight: 1 Kg

Connects to MPM



**SCMS0410**

- 8 x 10 Amp switching source controllers
- Max total load 16A
- Dimensions: 159x90x58 mm
- Weight: 1 Kg

Connects to MPM



**SCMS0810**

- 4 x 10 Amp change over relay & HF controller
- 4 x Independent low voltage outputs
- Max total load 40A (Single phase)
- Dimensions: 159x90x58 mm
- Weight: 1 Kg

Connects to MPM



**SCMC0410**

- 4 x 10 Amp digital dimming controller
- Broadcast DALI, DSI or 1-10V output
- Max total load 16A
- Dimensions: 159x90x58 mm
- Weight: 1 Kg

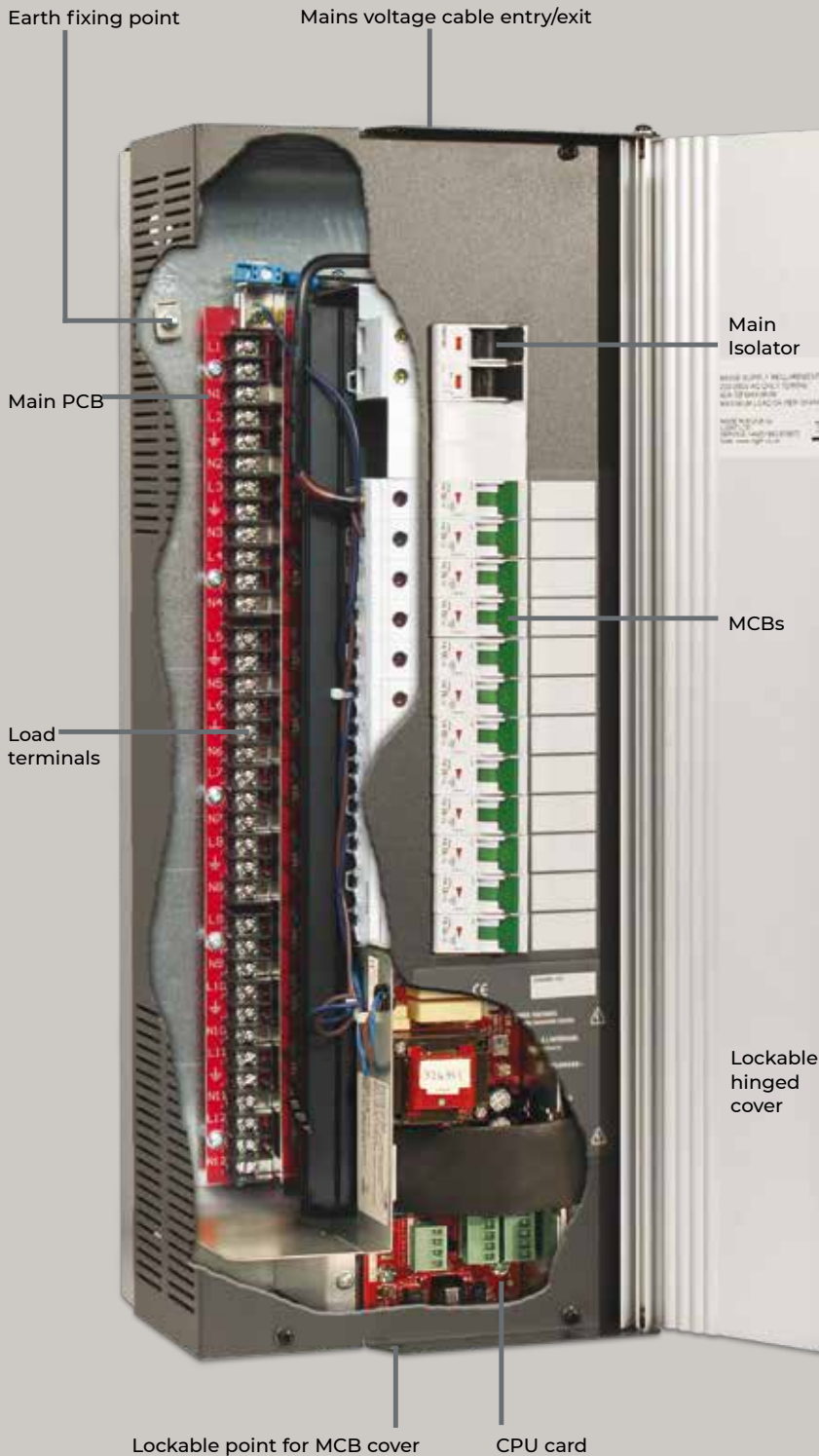
Connects to MPM



**SCMH0410**

# Source Controllers - Fixed Format Wall Mounted

## Internal view



**iLight fixed format source controllers are mechanically elegant, safe and practical to use.**

The iLight range of convection cooled source controllers may be configured for a wide variety of breaker and load types making them one of the most versatile and flexible control solutions on the market today.

A wealth of detailed features such as lockable hinged doors and top and bottom cable access make these units suitable for installation in almost any location, contractor friendly and convenient to live with.

## Variations

### Inductive Source Controllers

Dim resistive, inductive and low voltage electronic transformer loads (that are compatible with leading edge dimmers).

### Adaptive Source Controllers

Controller outputs can be adapted to resistive, inductive and capacitive load types. Very quiet operation.

Complete with iProtect lamp protection and auto short circuit protection. Channels may be selected for leading and trailing edge operation.

### Digital Dimming Controllers

Suitable for Broadcast DALI, DSI or 1-10 volt control configurable from iCANsoft. 230V switched relay outputs.

### Switched Relay Controllers

Switching of resistive, inductive or capacitive lighting loads. Quiet operation.





**S** - Single Pole, **N** - Neutral Disconnect, **D** - Double Pole, **RCBO** - RCBO Breakers, **RCBOX** - Field fitting of RCBOs

## Leading Edge Source Controllers

- 4 channel inductive source controller module
- Available in 5, 10 and 20 Amp versions
- MCB protection behind lockable hinged cover
- Dimensions
 

SCI0405S/N	280x220x155mm
SCI0405D, SCI0410S/N/D/RCBO/RCBOX	400x220x155mm
SCI0405RCBO/RCBOX	340x255x155mm
SCI0420S/N	375x330x155mm
SCI0420D	450x330x155mm
SCI0420RCBO/RCBOX	Consult iLight
- Weight
 

SCI0405S/N/D	4 Kg
SCI0405RCBO/RCBOX	4.5 Kg
SCI0410S/N	7 Kg
SCI0410D/RCBO/RCBOX	8 Kg
SCI0420S/N	9 Kg
SCI0420D	12 Kg
SCI0420RCBO/RCBOX	Consult iLight

Input isolator only included on RCBO and RCBOX versions

05 / 10 / 20 Amps per channel



SCI04 S  
SCI04 N  
SCI04 D  
SCI04 RCBO  
SCI04 RCBOX

- 12 channel inductive source controller module
- Available in 5, 10 and 20 Amp versions
- MCB protection behind lockable hinged cover
- Input isolator included (except 'D' version)
- Dimensions
 

SCI1205S/N	550x220x155mm
SCI1205D	690x220x155mm
SCI1205RCBO/RCBOX	550x255x155mm
SCI1210S/N/D, SCI1220S/N/D	850x330x155mm
SCI1210RCBO/RCBOX, SCI1220RCBO/RCBOX	850x374x155mm
- Weight
 

SCI1205S/N/D	10 Kg
SCI1205RCBO/RCBOX	11.5 Kg
SCI1210S/N	18 Kg
SCI1210D/RCBO/RCBOX	19.5 Kg
SCI1220S/N/RCBO/RCBOX	22 Kg
SCI1220D	23.5 Kg

05 / 10 / 20 Amps per channel



SCI12 S  
SCI12 N  
SCI12 D  
SCI12 RCBO  
SCI12 RCBOX

# Source Controllers - Fixed Format Wall Mounted

## Broadcast DALI, DSI or 1-10V Source Controllers

SCH0410S  
SCH0410N  
SCH0410D  
SCH0410RCBO  
SCH0410RCBOX



- 4 x 10 Amp HF ballast controller module
- Broadcast DALI, DSI or 1-10V control
- Suitable for 40 Amp single phase supply
- MCB protection behind lockable hinged cover
- Dimensions: 280x220x155mm  
(D - 400x220x155mm. RCBO & RCBOX - 340x255x155mm)
- Weight: 4 Kg (D, RCBO & RCBOX - 5 Kg)

Input isolator only included on RCBO and RCBOX versions

10 / 20 Amps per channel

SCH12 S  
SCH12 N  
SCH12 D  
SCH12 RCBO  
SCH12 RCBOX



- 12 channel HF ballast controller module
- Broadcast DALI, DSI or 1-10V control
- SCH1210 suitable for 40 Amp 3 phase supply
- SCH1220 suitable for 80 Amp 3 phase supply
- MCB protection behind lockable hinged cover
- Input isolator included (except 'D' version)
- Dimensions: 550x220x155mm  
(D - 690x220x155mm. RCBO & RCBOX - 550x255x155mm)
- Weight: 9 Kg (D, RCBO & RCBOX - 10.5 Kg)

## Switched Relay Source Controllers

10 / 20 Amps per channel

SCS04 S  
SCS04 N  
SCS04 D  
SCS04 RCBO  
SCS04 RCBOX



- 4 channel switched relay source controller module
- SCS0410 suitable for 40 Amp single phase supply
- SCS0420 suitable for 80 Amp single phase supply
- MCB protection behind lockable hinged cover
- Dimensions
 

SCH0410S/N, SCH0420S/N	280x220x155mm
SCH0410D, SCH0420D	400x220x155mm
SCH0410RCBO/RCBOX, SCH0420RCBO/RCBOX	340x255x155mm
- Weight
 

SCH0410S/N, SCH0420S/N	4 Kg
SCH0410D/RCBO/RCBOX, SCH0420D/RCBO/RCBOX	5 Kg

Input isolator only included on RCBO and RCBOX versions

10 / 20 Amps per channel

SCS12 S  
SCS12 N  
SCS12 D  
SCS12 RCBO  
SCS12 RCBOX



- 12 x 10 Amp switched relay source controller module
- SCS1210 suitable for 40 Amp 3 phase supply
- SCS1220 suitable for 80 Amp 3 phase supply
- MCB protection behind lockable hinged cover
- Input isolator included (except 'D' version)
- Dimensions
 

SCH1210S/N, SCH1220S/N	550x220x155mm
SCH1210D, SCH1220D	690x220x155mm
SCH1210RCBO/RCBOX, SCH1220RCBO/RCBOX	550x255x155mm
- Weight
 

SCH1210S/N, SCH1220S/N	9 Kg
SCH1210D/RCBO/RCBOX, SCH1220D/RCBO/RCBOX	10.5 Kg

## Adaptive Leading or Trailing Edge Source Controllers

- 4 x 10 Amp adaptive source controller module
- Suitable for 40 Amp single phase supply
- MCB protection behind lockable hinged cover
- Dimensions: 375x330x155mm (RCBO & RCBOX - Consult iLight)
- Weight: 9 Kg (SCA0410D - 10 Kg)

Input isolator not included



SCA0410S  
SCA0410N  
SCA0410D  
SCA0410RCBO  
SCA0410RCBOX

- 12 x 10 Amp adaptive source controller module
- Suitable for 40 Amp 3 phase supply
- MCB protection behind lockable hinged cover
- Dimensions: 850x330x155mm (RCBO & RCBOX - Consult iLight)
- Weight: 18 Kg (SCA1210D - 19.5 Kg)

Input isolator not included



SCA1210S  
SCA1210N  
SCA1210D  
SCA1210RCBO  
SCA1210RCBOX

## DMX Source Controllers

The SCD96 is a 96 channel DMX source controller designed to provide scene set dimming output for any DMX512 controlled load. The unit also incorporates 8 general purpose 3A change over relays which are DMX addressable as some of the 96 channel DMX outputs.

- 96 channels
- 8 x 3A general rating change over relays
- 128 scene memory
- 16 sequences with a maximum of 128 actions
- Dimensions: 240x220x90 mm
- 2.5 Kg



SCD96

ZerOS Server is a 19" rack mounted, fully featured, DMX lighting control system ideal for use in larger performance installations and networks where show replay, tracking backup or standalone operation is required. ZerOS Server has upto 8192 Control channels, fully patchable across 64 DMX Universes (DMX Output via 2 x 5 Pin XLR or via Ethernet) (Art-Net, sACN)

- A stand alone or remotely controlled event replay controller for complex permanent installations such as facades, landscapes or theme parks.
- Full tracking backup to any Zero 88 ZerOS lighting console
- A bridge between a performance lighting system and an architectural lighting control network making it ideal for theatres, conference centres and other public building applications.



ZerOS Server

# Network Interfaces

## Ethernet Gateway

EG2



The Ethernet Gateway provides a connection between an iCAN network and an Ethernet LAN. This allows a user to control and configure the iLight system using iCANsoft on a LAN network PC or via the internet rather than by connecting directly into the iLight network. Where a wireless LAN is in place (or by connecting a wireless router into the Ethernet Gateway) the user can access the network with a Wi-Fi enabled PC.

The Ethernet Gateway is also the host for the iLight series of remote applications including Android and iOS (iPhone®/ iPod touch®/ iPad®). Coupling the EG-2 to a WIFI network enables secure scene control, visual feedback and modification from your hand held device.

The Ethernet Gateway also facilitates connection to the internet when used with iCANsoft, a firewall, ISP and a Ethernet switch, this then enables remote connection for controlling, programming & obtaining diagnostics of the lighting control system.

- Connects iLight CAN network to 10/100 Mbps Ethernet/LAN.
- Configurable IP address.
- Facilitates internet and Wi-Fi LAN connection into the iLight network.
- Time clock. (Requires a permanent internet connection for network time protocol)
- Holiday mode - Replay learned usage when absent (Requires time clock to be activated and a permanent internet connection)
- Supports iLight applications via mobile devices. Android and iOS (iPhone®/ iPod touch®/ iPad®)
- Supports ASCII control strings.
- 16 Sequences, each with a maximum of 128 actions.

EG2-NA



The Ethernet Gateway is available in two versions:

**EG2** - Ethernet Gateway in DINrail enclosure (power supply and metal DINrail enclosure available to order separately).

- Dimensions: 160x90x58 mm
- 1 Kg

**EG2-NA** - Ethernet Gateway including power supply and steel enclosure.

- Dimensions: 240x220x90 mm
- 2.5 Kg

## System Integrator Node

SI-2-D



The SI-2-D System integration node is a DINrail mounted RS232 converter for interfacing with third-party devices to and from iLight's iCANnet network.

The SI-2-D enables control of a wide range of equipment through the iLight user interfaces such as: audio systems, TVs, projectors, blinds, curtains, heating and HVAC systems, Security & Fire alarms and BMS.

- Configurable RS232 COMMS via 9 pin female D type (Send/Receive)
- Adjustable baud rates of 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200
- 100 RS232 Output Strings, up to 255 bytes each (ASCII or Hex)
- 100 Output Actions, triggered by a "trigger" CAN message. Each action can send a RS232 string, send a CAN message, or control a sequence
- 100 RS232 Input Filters, up to 255 bytes each (ASCII or Hex)
- 100 Input Actions, triggered by a match on an input filter
- 16 Sequences, each with a maximum of 128 actions
- Dimensions: 53.5x90x58 mm

## BMS Interface

The BMS Interface supports a wide range of control protocols to act as a bridge between Eaton's intelligent lighting control networks and a central BMS management system.

- Connectivity: LON, BACnet, Modbus
- 200 areas (points) supported. (Consult iLight for >200)
- Configurable using built in web server
- DINrail mounted
- Compatible with iLight and Greengate lighting control systems
- Dimension: 157x98x59mm (ex. connectors )
- Weight: 0.275 kg



**BMS-1F**

## Sensor Interface

The UIS features 3 sensor inputs for connecting analogue or third party sensors to the iLight lighting control network. Each sensor input is suitable for either a single occupancy detector or daylight sensor or a combined PIR, Photocell with built in infra-red control.

Each UIS installed adds three independent daylight linking engines to the network making this unit ideal for maximising daylight harvesting across all areas.

This small compact device can be deployed anywhere on the iLight network and uses RJ12 sockets and cables for fast installation.

- 3 x connections for sensors to iCAN network
- RJ12 type sockets for rapid sensor connection
- 3 independent daylight linking engines
- Presence or absence detection support
- Infra-red support for HH171R remote controller
- Supports Infra-red identification
- 16 Sequences, each with a maximum of 128 actions
- Status LEDs
- Message filtering and isolation for large networks
- Dimensions: 124x49x23 mm



**UIS**

## Universal Interface (UIG2)

The UIG2 allows other items such as partition switches to provide inputs to the iLight network. When configured for a room join, moving the partition will open or close a magnetic proximity switch contact (not included) and automatically re-program the function of the control panels within the room.

- 4 x 0-10V analogue inputs for volt free switches or motion detectors
- 4 volt free contact closure inputs
- 4 switch outputs for LED indication
- 16 sequences each with a maximum of 128 actions
- Fits standard UK style double gang 47mm deep back box



**UIG2**

## Mini Universal Interface (UIM)

The UIM allows other items to provide inputs to the iLight network and is often used with third party and custom faders and switches.

- 6 inputs which each can be individually configured as 0-10V analogue, digital or photoelectric cell inputs
- 8 sequences with up to 30 steps per sequence
- Only 42mm Ø so easily fits in European and UK junction and back boxes



**UIM**

# Network Interfaces

## Relay Interface

RI2



The Relay Interface provides a versatile interface between the iLight network and other control systems. The unit is fully configurable and may be programmed to perform switching functions for curtain or blind control, AV and presentation equipment or drive contactors for heavier power applications.

- 8 relay outputs
- 8 inputs - programmable as analogue or digital used for volt free switches or motion detectors
- 16 sequences each with a maximum of 128 actions
- Audio Visual RS485 port, 2 alarm inputs
- Dimensions: 240x220x90 mm
- 2.5 Kg

## TSE Touchscreen Interface

TSI-1



The TSI-1 Touchscreen Interface enables the use of multiple TSE55 and TSE80 colour touchscreens and ensures synchronization of screen configurations across an entire building installation. It also facilitates connection to iLight's TSEtouch app enabling personalised control from your compatible hand held smart device.

- Configurable IP address.
- Scheduled events
- Supports smart device applications. (iPhone®/ iPod touch®/ iPad® / Android)
- BACnet communication over TCP/IP
- Dimensions: 106x91x62 mm

## Optional Plugin DMX Interface Board

DI1



Plugin interface board for DMX control input to any wall mounted source controller (When installed, RS485 port is no longer available for ASCII control using RS485).

Note: Does not fit DINrail devices

## Network Bridge & Repeaters

BN-2-D



BN-2-D is a DINrail mounted bridging module that allows 2 or more iLight iCANnet™ network segments to be connected together or arranged logically into floors or areas for ease of management. The bridge is also used to extend the network as a repeater where more than 500m of cabling is required or more than 100 network devices are used on one segment. BN-2-D also allows network messages to be filtered to ensure optimal performance in larger networks.

- Configurable as Network Bridge Filter or Repeater
- Enables Larger networks by segmenting long cable runs
- Single control of multiple iCANnet networks
- Dimensions: 53.5x90x58 mm

CR-1-RJ



CR1-RJ is designed to simplify the connection of large panel enclosures to the iLight network. It enables a panel enclosure to sit on the network, but be internally terminated.

CR1-RJ also incorporates a programming port that can isolate the panel for programming, without affecting the rest of the network.

- iCANnet panel interface
- Includes iCANnet™ programming point (RJ12)
- Dimensions: 53.5x90x58 mm

# HVAC Control

## Heating & Cooling Control

The HVAC-1 controller is ideal for individual room heating and cooling control. Each unit may be configured for the site application to control fan coil settings as well as underfloor heating. The unit is provided with a variety of analogue and digital inputs to support multiple sensors.

Being able to control both the underfloor and fan coil systems from the one controller can significantly reduce the cost of a project as separate systems are no longer required.

HVAC-1 seamlessly integrates with iLight's Lighting and Shading systems as well as integrating directly to BMS.



HVAC-1

The TSG40 colour touchscreen allows the user to select and control room lighting, heating, cooling, blind and curtain settings.

Room temperature control modes can easily be altered between Auto, Heat only, Cool only and Off at a touch of the screen while the occupant can effortlessly adjust the temperature set point and fan speeds within each room.

An integrated temperature sensor is also supplied on the TSG40 to remove the need for remote room temperature sensors.

TSG40 surround is also available in a number of finishes with options to match the surround to any RAL colour to ensure it matches your project colour scheme.

- 4" capacitive colour touchscreen for direct connection to HVAC-1
- Heating, cooling, shading and lighting control
- Combined fan coil heat/cool and under floor heating control



TSG40

PSU-24AC-DIN provides a 24V AC output for powering the HVAC-1. With a 12VA output this is an ideal PSU to use where power isn't provided by the fan coil itself.

PSU-24AC-DIN also incorporates fuse protection via a self resetting fuse.



PSU-24AC-DIN

Button Sensors from iLight are designed to monitor internal room temperature conditions and are available in white plastic, brushed stainless and brass finishes as standard. The Button sensors are supplied with a 300mm flying lead. Faceplates to match available on request.



TS-B

TS-FL flying lead temperature sensors are specifically designed to measure conditions in small duct spaces such as VAV boxes, fan coil units or other space restricted areas. Available with a 2 or 5m flying lead.



TS-FL-2M  
TS-FL-5M

# Sensors

## iCANnet Network Sensor

NS-3



### Network Sensor with Combined PIR, Daylight and Infrared Control

- Connected directly to the iLight Network via CAN terminals
- PIR detection optimised for small movement
- IR receiver for HH17IR
- Coverage: 7m Ø at 2.8m ceiling height
- Dimensions: 49mm Ø x 35mm Depth

## DALI Sensors

FLT-MTS6-DALI  
FLT-MTS12-DALI



### DALI Ceiling Sensor with PIR and Daylight Sensing

- FLT-MTS6-DALI Coverage: 4.5m Ø at 2.4m ceiling height
- FLT-MTS12-DALI Coverage: 9m Ø at 2.4m ceiling height
- Draws power from the DALI communication bus to eliminate the need for external power packs
- DALI power consumption: 3.75mA
- Dimensions: 91mm Ø x 36mm Depth

PPAD-C-HB-DALI-ADDR



### DALI Ceiling Sensor, High Bay PIR Presence/Absence Detector

High sensitivity PIR detector suitable for high bay applications where high detection sensitivity is needed.

- Coverage: 40m Ø at 15m ceiling height
- Draws power from the DALI communication bus to eliminate the need for external power packs
- DALI power consumption: 8mA
- Dimensions: 88mm Ø x 112mm Depth

## Low Voltage Sensors

PE2EXT



### External IP65 Photocell

- Low voltage exterior Photocell Detector
- Daylight sensitivity range approx 0-2,000 lux
- IP65 rated.
- Dimensions: 70x50x35mm

*May be used with UIM and UIS*

AXCS01SRJ



### Low Voltage Sensor with Combined PIR, Daylight and Infrared Control

- PIR detection optimised for small movement
- Coverage: 7m Ø at 2.8m ceiling height
- Dimensions: 49mm Ø x 35mm Depth

*May be used with UIS*

*A range of custom sensor solutions are also available, consult iLight with your specific requirements.*



# Accessories

## Astronomical Time Clock

The TC-1 is a surface mounting electronic time clock with astronomical facility and LCD display. It connects to the iLight network and is fully programmable using either the front panel keyboard or iCANsoft™ PC based software for daily or date specific events.

- 255 events
- 8 sequences with up to 30 steps per sequence
- Scene selection and programming
- Channel level raise and lower



TC1

## iCANnet Network Cable

iCANnet Network Cable is specifically designed to connect between each device on an iLight control system. The cable consists of 2 x 18 AWG tinned copper wire with PE Insulation (Power pair) and 2 x 22 AWG screened tinned copper wire with PE Insulation (data pair). There is also a tinned copper drain wire in contact with the aluminium foil screen. The cable is low smoke zero halogen (LSZH) rated.



iCANnet Cable

## DALI DAC

### DALI Digital to Analogue Converter

Built-in relay and 1-10V current sinking interface used to integrate individual or a group of dimmable 1-10V ballasts/drivers to iLight's DALI lighting control system.

- Ultra low profile form factor designed to fit inside most ballast compartments
- Powered by the DALI bus
- Automatic detection of the DALI Bus power loss with default to closed, i.e. on or 100% position
- DALI power consumption: 3.75mA
- Dimensions: 100x28.6x25.4mm



FLT-DAC-DALI

## DALI Field Relay

The iLight Field Relay provides On/Off control and network connectivity. It uses advanced switching technology specifically designed to handle the large inrush currents and inductive loads found in lighting applications.

- Maximum Load: 20 Amps
- Automatic loss of power detection defaults relay to closed (On) position
- DALI power consumption: 3.75mA
- Dimensions: 88x80x39 mm



FLT-HPRS-DALI

## DALI Input Unit

Enables customer specified switches, sensors, time clocks or other on/off control devices to be incorporated into a standard DALI installation.

- Powered from DALI bus, compatible with standard DALI rating
- Up to four user configurable inputs
- DALI power consumption < 9 mA
- Dimensions: 41x20x4 mm (Cable length: 158mm)



DALI-I-U

# Network overview

## One network - fully scalable

The iLight network has been designed to offer total freedom and flexibility in system design.

The iLight network features distributed data processing and is truly scalable from 2 to 65,000 devices. There are virtually no limits as to what can be added to the system and with no central memory, components can easily be added or removed as required without major redesign.

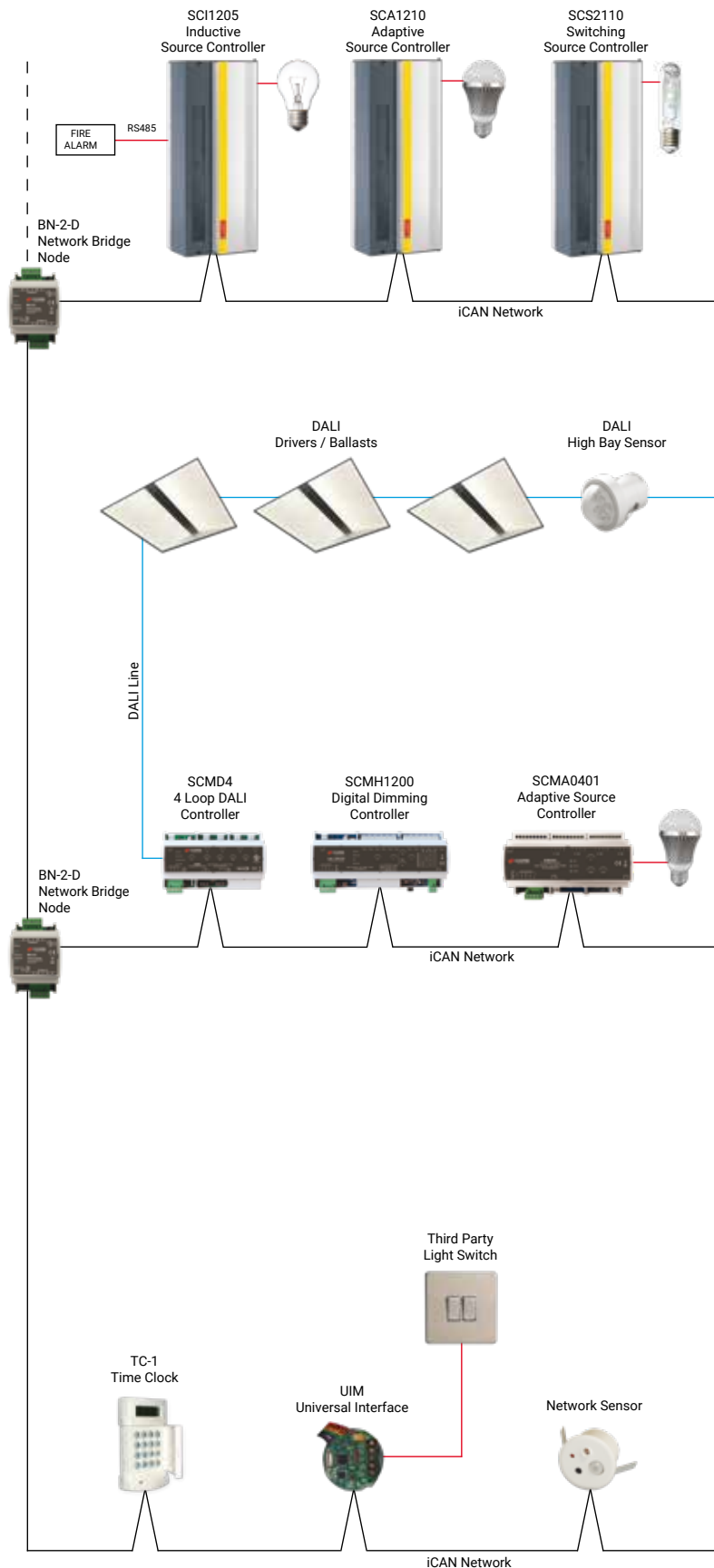
The extensive iLight product range includes source controllers, interfaces and accessories that provide control solutions across residential, commercial and entertainment style projects. All common communications protocols are catered for, ensuring that the iLight system seamlessly integrates with other control components within an installation.

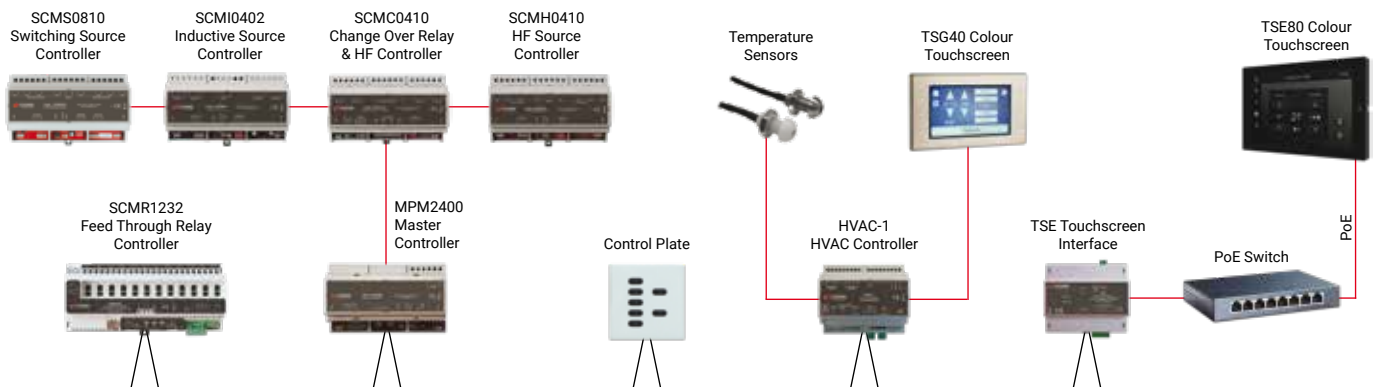
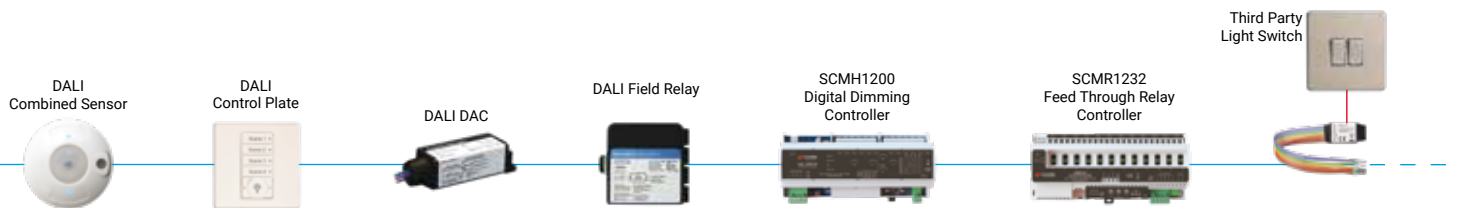
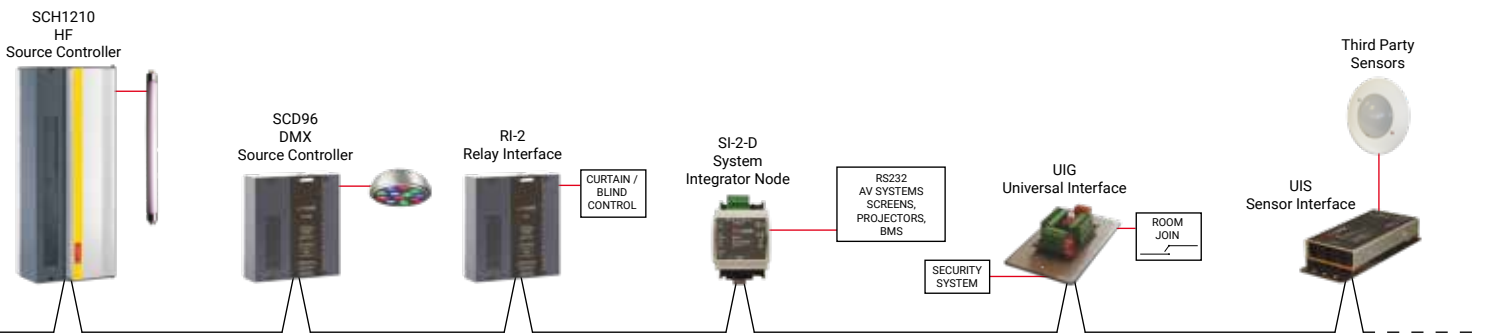
Network cabling may be undertaken using iLight iCANnet cable or alternatively industry standard cable types eg. Belden 1502R.

### Connectivity

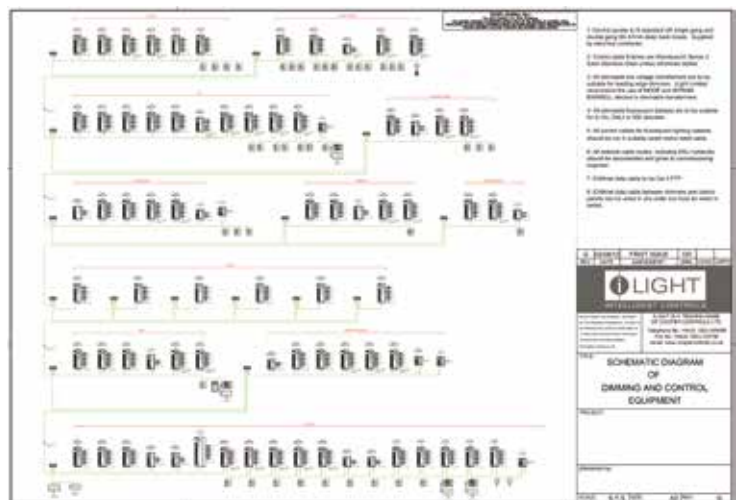
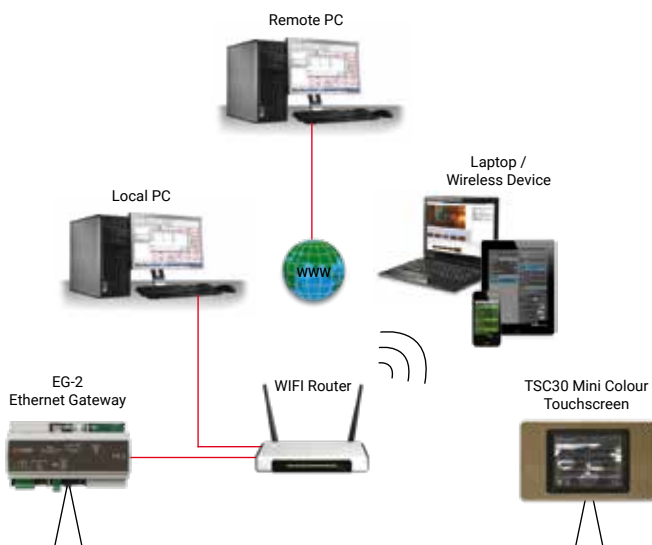
The iLight system provides connectivity to the following protocols;

- DALI
- 1-10V
- DSI
- CAN
- RS232
- RS485
- DMX512
- KNX via KNX Gateways
- Ethernet
- BACnet
- Modbus
- LON





Example Project Riser Drawing



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