iLight Product Catalogue

English - Issue 8.6

iLight Lighting Controls

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

The iLight Solution

- **Wide ranging** capability for almost any application

- **Scalable** networks from a single device up to 65,000+ devices

- **True distributed intelligence**, no reliance on central processors, removing the inherent single point of failure

- Hardwired Addressable and Pluggble **DALI solutions**

- **Intuitive user interfaces** mask complexity and advanced programming scenarios

- Finishes, styles and **customisation** of user interfaces to complement any built environment

- **Wide reaching control** - Comprehensive range of source controllers enabling seamless control of multiple protocols and dimming technologies

- BMS/PMS and HVAC **integration capability** with native FCU control and fully featured BMS gateways

- **Advanced software suite** for system maintenance, management and automation

- **Comprehensive Data** – iLight API's pave the way for supporting more complex applications harnessing the lighting control infrastructure

- **On premis** or online - Data security at its core

iLight, a brand of **signify**

Signify is the world leader in lighting for professionals, consumers and lighting for the Internet of Things. Our energy efficient lighting products, systems and services enable our customers to enjoy a superior quality of light, and make people's lives safer and more comfortable, businesses more productive and cities more livable.

Our purpose is to unlock the extraordinary potential of light for brighter lives and a better world. We achieve this through living our values, innovation, passion for sustainability and desire to transform people's lives.
signify.com

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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 office buildings, industrial spaces, hospitals, airports, universities, shopping developments, conference centres, places of worship, hotels, ocean liners, restaurants, theme parks and 'Smart' homes.

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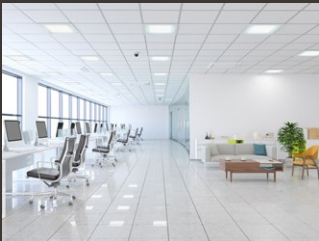
User Interfaces

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.

User Interfaces

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.

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 (Ral 9106)

Custom Backlit Button Engraving Examples

Cove · Dinner · Ceiling · Wall · Low · Lobby · Holiday · Pendants · Home

Configuration Examples

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.

Classic

Classic control plates are supplied with a choice of 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 plate 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

- 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 (not available with fully populated 10 or 20 button plate).
- Fully configurable functionality including room joining, sequencing and programmable logic functions.
- Optional keyswitch on the double gang version.
- Flash memory for future proof upgradeability.
- Variable fade times: 0.1 seconds to 60 minutes per button.
- Dimensions: Single Gang - 86mm (h) x 86mm (w).
  Double Gang - 86mm (h) x 146mm (w).
- Fits standard 35mm deep UK back box.
- 12Vdc powered direct from iLight network.

Configuration Examples

CSR023-W
2 button Series 3 plate with white finish. (Custom engraving)

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

CSR053-MS
5 button plate with super mirror stainless 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.

CSR03-SS
9 button Series 2 plate with IR receiver and polished brass finish.

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

Finish Codes

	PB	Polished Brass
	AB	Antique Bronze*
	SS	Satin Stainless Steel
	MS	Super Mirror Stainless
	AR	Antique Brass*
	AC	Antique Copper*
	AS	Antique Silver*
	MB	Matt Black*
	W	White

✱ These finishes are special order and can take a longer lead time.

Custom Button Engraving Examples

FULL | MED | LOW | OFF | ◀▶ | ▶◀ | ◣ | ◿ | ■ | Mute

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.

Finish Codes

	B	Black	W	White

Custom Button Engraving Examples

Morning | Midday | Evening | Event 1 | Event 2 | Read | Watch TV | Clean | Off

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.
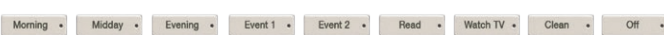
Key Features

- 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).

Finish Codes

	B	Black	W	White

Custom Button Engraving Examples

Morning | Midday | Evening | Event 1 | Event 2 | Read | Watch TV | Clean | Off

TSEtouch - TSE80 Ultra High Resolution Colour Touchscreen
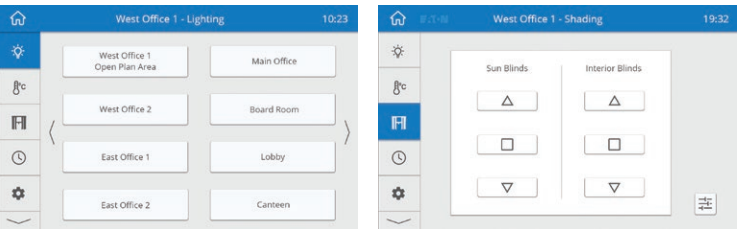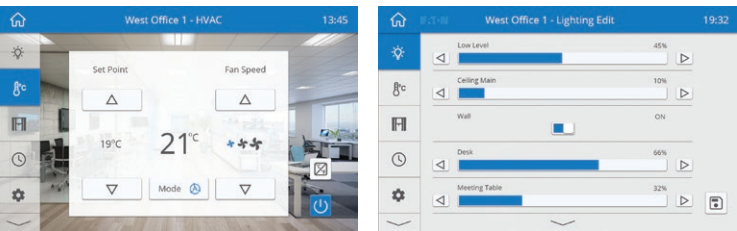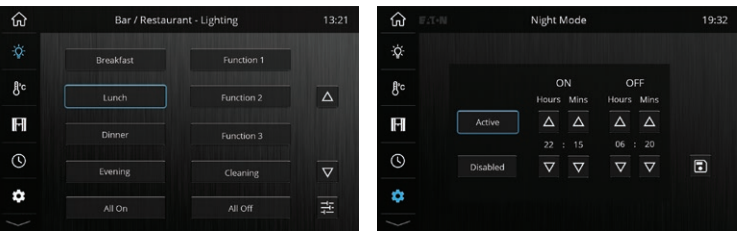

TSE80

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.

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).
- 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.

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.

Custom Graphic Examples

TSEtouch - TSE55 Ultra High Resolution Colour Touchscreen

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).
- 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.

TSE55

TSE App

Dedicated App for the TSE55 and TSE80 with free download via iTunes and Google Play Store. TSE App mirrors the touchscreen pages enabling to user to control all programmed functions anywhere within the space.
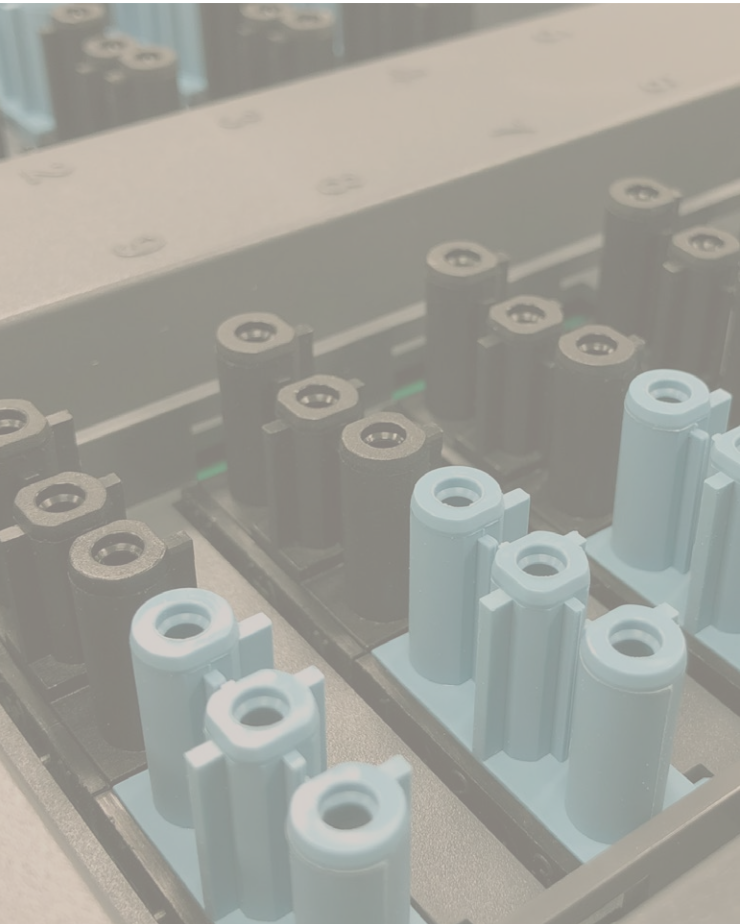

iOS Download
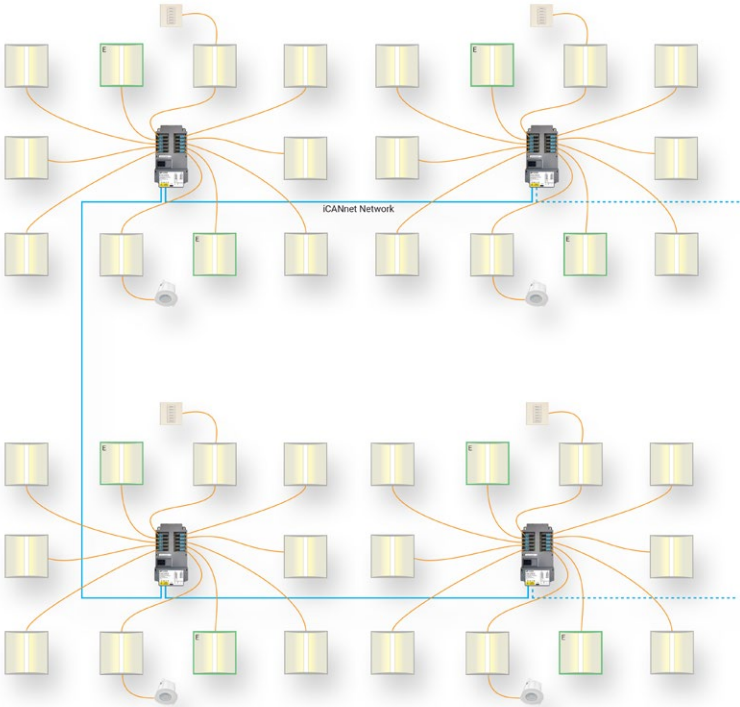(iTunes)

Android Download
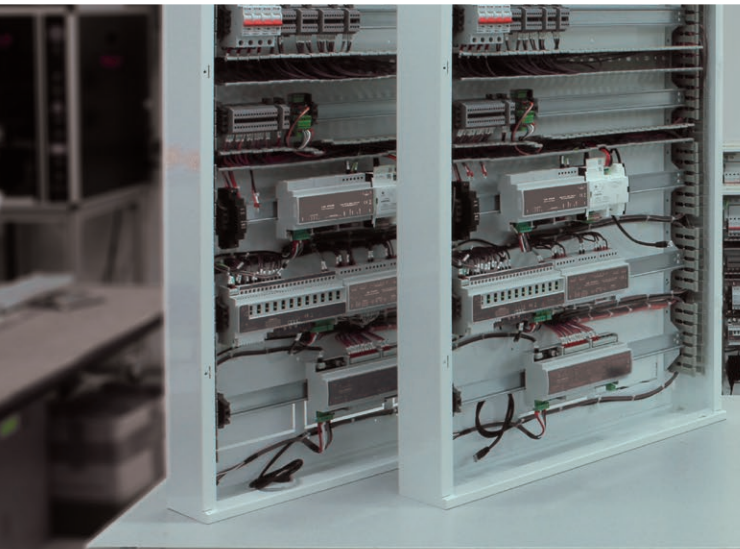(Google Play Store)

Controllers

Pluggable Controllers

Next generation pluggable lighting control modules designed for fast and efficient installation. Complemented by a comprehensive range of sensors and wiring accessories for a complete pluggable solutions.


iCANnet Network

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
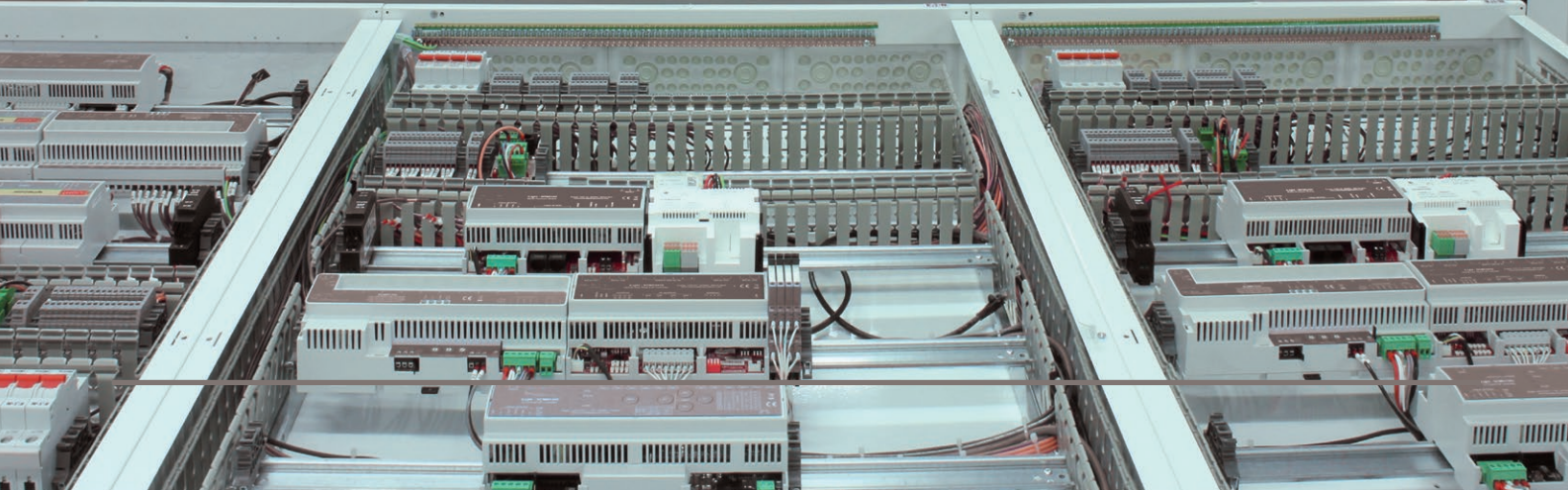
Controllers

Hard Wired Controllers - Configure To Order

iLight's 'Configure to Order' solution offers 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.

Hard Wired Controllers - Pre-Populated

Specifically designed for speed and ease of installation, these pre-populated control enclosures are core building blocks designed to make iLight even easier to specify.

An all metal, convection cooled design makes the EN Series a highly robust and reliable solution. Required installation space is dramatically minimised through their slim profile and compact form factor.

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.

Earth and Neutral Terminals

MCBs and Network Power Supplies

Pre-wired and Pre-populated

Cable Management - Cable Tie Mounts

iLight Dinrail

Mounting for landing card and programming port

Lockable hinged cover
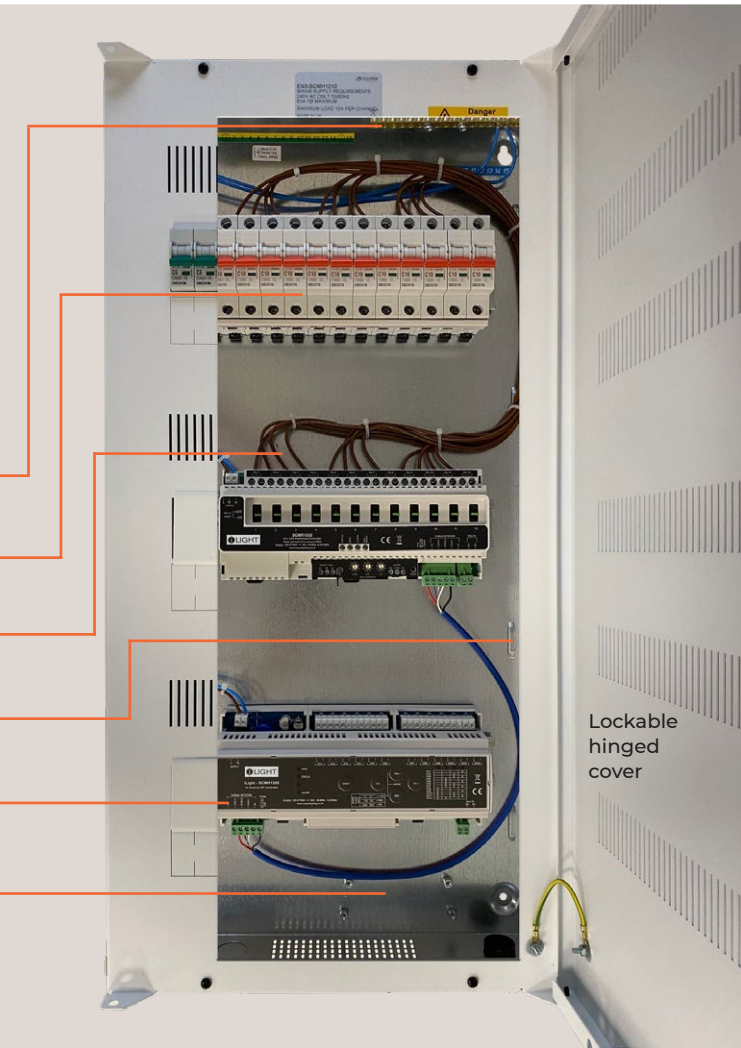
Lighting Control Modules

LCMD-10

10 Port Self Addressing DALI Lighting Control Module

Intelligent pluggable lighting control module with 10 auto addressing DALI outputs. A maximum of 30 DALI luminaires (or short addresses) can be connected per LCMD-10, distributed at will across the 10 ports. In addition, each port supports 1 DALI Emergency Luminaire, 1 DALI IU or DALI Keypad and 1 DALI Sensor.

- 10 auto addressing DALI ports with Relay switch output and maintained supply
- Supports iLight DALI inputs, control plates and sensors
- Supports DALI Type 8 tuneable white
- Low profile, ideal for ceiling voids with limited space (Approximately 105mm depth, subject to cable type)
- Full DALI feedback for lamp status, DALI error and EM test
- Emergency testing of DALI and conventional luminaires
- Dimensions: 382.8 x 200.2 x 57.5mm (L x W x H)
- Weight: 2.5Kg

10 Port Lighting Connection Centre

The iLight LCC-10 Lighting Connection Centre sits at the heart of the iLight Solo series providing a central connection point for stand alone lighting control systems. LCC-10 features a large wiring compartment with easy access to mains and DALI terminals. Both sides of the unit can be combined to support 10 outputs or used independently in 2 groups of 5 outputs.

LCC-10

- Lighting connection centre for stand alone applications
- Single or dual channel configuration - 1 group of 10 or 2 groups of 5 outputs supporting mixed switched and DALI dimming
- Supports multiple applications utilising the iLight Solo sensor range
- Large wiring compartment with multiple terminals for each input for speed and ease of installation
- Independent permanent and switched live connections
- Wide range of complimentary connecting leads and plugs available
- Low profile, ideal for ceiling voids with limited space (Approximately 105mm depth, subject to cable type)
- Adds plug and play capability to iLight Enterprise DALI controllers
- Dimensions: 382.8 x 200.2 x 57.5mm (L x W x H)
- Weight: 2.5Kg

## Pluggable Wiring Accessories

Plugs, Sockets and T-Pieces
Range of plugs and sockets for making up custom cable lengths including LCM plugs (Standard Black and red for emergency) In-line plugs and sockets for extension leads and T-Pieces.

Luminaire Leads
Range of open ended luminaire leads including LCM plug to open end (Standard Black and red for emergency) and T-Piece to open end.
- Choice of wiring configurations for switched, DALI dimmed and emergency applications
- LCM leads available in 5m and 3m lengths
- T-Piece leads available in 3m and 1m lengths
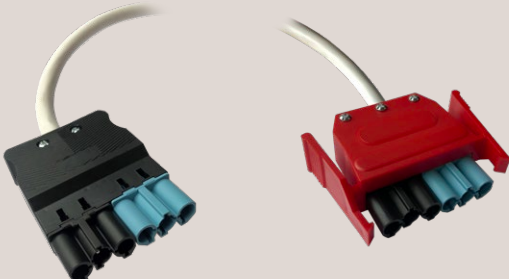
Extension Leads
Range of extension leads for connecting LCMs to T-Pieces as well as connecting T-Pieces to T-Pieces
- Choice of wiring configurations for switched, DALI dimmed and emergency applications
- Available in 5m and 3m lengths

Available in 3m & 5m lengths

Sensor Leads
Range of sensor leads for connecting both the LCC-10 and LCMD-10 to sensors
- Available in 5m and 3m lengths

BESA Box and Drop Leads
BESA mounted white socket and accosiated white plug as well as luminaire leads with BESA plug to opend ends to suite both standard and emergency applications
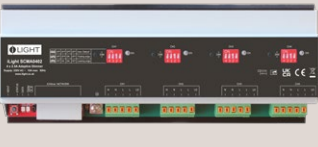
For more information and individual order codes, please visit our web page and view our dedicated Pluggable Wiring Accessories brochure

Click or scan QR code

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

SCMS0410

- 4 x 10 Amp switching source controller
- Switches resistive, inductive and capacitive lighting loads
- Quiet operation
- Dimensions: 73x90x60 mm
- Weight: 0.25 Kg

SCMD2

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

SCMC0210

- Controls 2 sets of shades max 10A per relay
- Integral processor
- Dimensions: 73x90x60 mm
- Weight: 0.25 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

SCD96-D

- 96 DMX outputs
- 16 sequences with up to 128 steps per sequence
- Configurable iLight Area/Channel Number
- 128 Scenes per DMX Channel
- Dimensions: 53.5x90x58 mm
- Weight: 0.1 Kg

SCMR0432

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

Primary Controller & Output Modules

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

Primary Controller (MPM)

MPM2400

- Primary control of up to 48 channels of switching and dimming
- Built in system power supply
- Use with SCMI0402 & SCMH0410 modules
- Dimensions: 159x90x58 mm
- Weight: 0.5 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

Connects to MPM

SCMI0402

- 4 x 2 Amp inductive leading edge source controller
- Max total load 5A
- Dimensions: 159x90x58 mm
- Weight: 0.5 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

Connects to MPM

SCMH0410

- 4 x 10 Amp digital dimming controller
- Broadcast DALI, DSI or 1-10V output
- Max total load 16A
- Dimensions: 159x90x58 mm
- Weight: 0.5 Kg

Fully Addressable DALI Controllers

EN1-SCMD4

- 4 Universe Addressable DALI-2 Controller
- Can individually dim, switch and monitor up to 256 DALI addressable ballasts
- 64 groups per DALI universe
- Includes ability to control and test DALI emergency fittings
- Supports iLight DALI sensors and field devices
- 2 configurable volt free inputs
- DMX & RS485 control
- Dimensions: 250x352x87.2mm
- Weight: 4 Kg

EN1-SCMD2

- 2 Universe Addressable DALI Controller
- Can individually dim, switch and monitor up to 128 DALI addressable ballasts
- 64 groups per DALI universe
- Includes ability to control and test DALI emergency fittings
- Supports iLight DALI sensors and control plates
- 2 Internal DALI universe power supplies
- Each universe has a dedicated test/override button allowing the installer to test or override the installation prior to commissioning
- Dimensions: 250x352x87.2mm
- Weight: 4 Kg

Broadcast DALI, DSI or 1-10V Controllers

EN3-SCMH1210

- 12 Channel x 10 Amp Digital Dimming & Switching Controller
- 120 Amp total box load on 12 circuits
- Broadcast DALI, DSI or 1-10V control
- 128 scene memory
- Fail to full safety feature
- iCAN network inputs
- Panic/Fire alarm input
- Dimensions: 700x352x87.2mm
- Weight: 11.2 Kg

Switched Relay Controllers

EN3-SCMR1210

- 12 Channel x 10 Amp Switching Controller
- Switches resistive, inductive and capacitive lighting loads
- Manual override of any channel
- Integral processor
- DALI in (12 address DALI end device)
- RS485 / DMX512 in
- 2 x Auxiliary Inputs
- Dimensions: 700x352x87.2mm
- Weight: 10.8 Kg

Adaptive Leading or Trailing Edge Controllers

EN1-SCMA0401

- Compact 4 x 1A 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
- Configurable Alarm Input (volt free)
- DALI Input (4 individual DALI addresses)
- Dimensions: 250x352x87.2mm
- Weight: 4.2 Kg

EN3-SCMA1201

- Compact 12 x 1A 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
- Configurable Alarm Input (volt free)
- DALI Input (12 individual DALI addresses)
- Dimensions: 700x352x87.2mm
- Weight: 9.8 Kg

SCA0410

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

SCA1210

- 12 x 10 Amp adaptive source controller module
- Suitable for 40 Amp 3 phase supply
- MCB protection behind lockable hinged cover
- Dimensions: 850x330x155mm
- Weight: 18 Kg

DMX Controllers

19" rack mounted, fully featured, DMX lighting control system ideal for use in larger installations.

- 8192 Control channels, fully patchable across 64 DMX Universes
- A stand alone or remotely controlled event replay controller for complex permanent installations such as facades, landscapes or theme parks.

ZerOS Server

Network Interfaces

Ethernet Gateway

DINrail Module

EG2-S

Controls Enclosure

EN1-EG2S

The EG2-S provides Ethernet connectivity to the iCAN network for integration into our software services as well as providing API integration for third-party systems.

The EG2-S incorporates an intelligent bridge function which allows multiple systems to be joined over a secure Ethernet network opening up the capabilities of the iCAN system to cover multi-campus installations across the globe giving building and business owners connectivity to there systems from anywhere in the world.

- Connects iLight's iCANnetTM network Ethernet/LAN
- Configurable IP address
- Facilitates Ethernet connection into iCANnetTM
- Scheduled events with time clock supporting multiple time zones, regional daylight savings and NTP if required.
- iCAN network bridging over IP
- Connection for commissioning and monitoring of an iCAN network
- Also available as a pre-wired, pre-populated controls enclosure - EN1-EG2S
- Dimensions: 106x91x62 mm
- Weight: 0.22 kg

TSE Touchscreen Interface

DINrail Module

TSI-1

Controls Enclosure

EN1-TSI1

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
- Also available as a pre-wired, pre-populated controls enclosure - EN1-TSI1
- Dimensions: 106x91x62 mm
- Weight: 0.22 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

Network Interfaces

BMS Interface

BMS-1F

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

Sensor Interface

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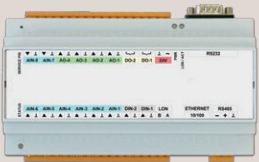
The UIS features 3 sensor inputs for connecting analogue or third party sensors to the iLight lighting control network. Each sensor input is suitable for either a single occupancy detector or daylight sensor or a combined PIR, Photocell with built in infra-red control.

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 HH17IR 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

Universal Interface (UIG2)

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 plates 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
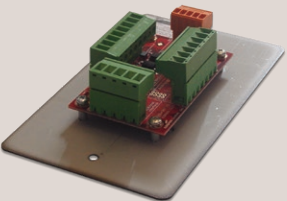
Network Interfaces

Mini Universal Interface (UIM)

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

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

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

DALI Interfaces

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

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

PPAD-C-DALI-ADDR

DALI Ceiling Sensor with PIR and Daylight Sensor

DALI Multi-Sensor combining daylight sensing and occupancy detection.

- Coverage: 7m Ø at 2.8m ceiling height
- Draws power from the DALI communication bus to eliminate the need for external power packs
- DALI power consumption: 8mA
- Separate surface mount box for BESA fixings
- Dimensions: 76mm Ø x 68.5mm Depth

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-MB-DALI-ADDR

PPAD-C-MB-EXT-DALI-ADDR
Exterior IP65 version

DALI Mini Ceiling Sensor, Mid Bay PIR Presence/Absence Detector

- Medium sensitivity detection
- Coverage: 16m Ø at 7m ceiling height or 9m Ø at 2.8m
- Draws power from the DALI communication bus to eliminate the need for external power packs
- Ceiling flush mounting or fixture mounting options.
- DALI power consumption: 8mA
- Dimensions: 38mm 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

Sensors

SOLO Stand Alone Sensors

Stand alone mains voltage powered, ceiling mounted PIR sensor.

- Coverage: 7m Ø at 2.8m ceiling height
- Presence detection
- Manual adjustment only
- Adjustable light level threshold and adjustable timer
- Max mounting height: 3m
- Dims: 76mm Ø x 68.5mm Depth

PPD-C-230V

Stand alone mains voltage powered, ceiling mounted PIR sensor.

- Coverage: 7m Ø at 2.8m ceiling height
- Presence or absence detection
- Adjustable light level threshold and adjustable timer
- IR Receiver for remote setup
- Max mounting height: 3m
- Dims: 76mm Ø x 68.5mm Depth

PPAD-C-230V

Stand alone mains voltage powered, ceiling mounted PIR sensor with DALI / DSI dimming.

- Coverage: 7m Ø at 2.8m ceiling height
- Presence or absence detection
- Light level sensor and adjustable timer
- IR Receiver for remote setup
- Max mounting height: 3m
- Dims: 76mm Ø x 68.5mm Depth

PPAD-C-DALI-230V

High Bay, stand alone mains voltage powered, ceiling mounted PIR sensor.

- Coverage: 40m Ø at 15m ceiling height
- Presence or absence detection
- Adjustable light level threshold and adjustable timer
- IR Receiver for remote setup
- IP40 / IP65 with supplied gasket
- Max mounting height: 15m
- Dims: 88mm Ø x 112mm Depth

PPAD-C-HB-230V

High bay, stand alone mains voltage powered, ceiling mounted PIR sensor with DALI / DSI dimming.

- Coverage: 40m Ø at 15m ceiling height
- Presence or absence detection
- Light level sensor and adjustable timer
- IR Receiver for remote setup
- IP40 / IP65 with supplied gasket
- Max mounting height: 15m
- Dims: 88mm Ø x 112mm Depth

PPAD-C-HB-DALI-230V

Stand alone mains voltage powered, ceiling mounted microwave sensor.

- Coverage: 12-16m Ø at 2.8m ceiling height
- Presence or absence detection
- Adjustable light level threshold and adjustable timer
- IR Receiver for remote setup
- Max mounting height: 3m
- Dims: 76mm Ø x 68.5mm Depth
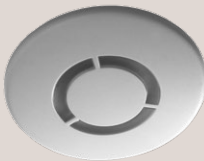
MPAD-C-230V

Sensors

SOLO Stand Alone Sensors

MPAD-C-DALI-230V

Stand alone mains voltage powered, ceiling mounted microwave sensor with DALI / DSI dimming.

- Coverage: 12-16m Ø at 2.8m ceiling height
- Presence or absence detection
- Light level sensor and adjustable timer
- IR Receiver for remote setup
- Max mounting height: 3m
- Dims: 76mm Ø x 68.5mm Depth

MPAD-C-A-230V

Stand alone mains voltage powered, ceiling mounted adjustable microwave sensor.

- Adjustable detector head / range
- Presence or absence detection
- Adjustable light level threshold and adjustable timer
- IR Receiver for remote setup
- Max mounting height: 3m
- Dims: 85mm Ø x 99mm Depth

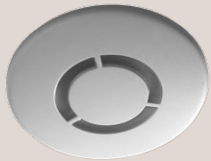**MPAD-C-A-DALI-230V**

Stand alone mains voltage powered, ceiling mounted adjustable microwave sensor with DALI / DSI dimming.

- Adjustable detector head / range
- Presence or absence detection
- Light level sensor and adjustable timer
- IR Receiver for remote setup
- Max mounting height: 3m
- Dims: 85mm Ø x 99mm Depth

MPD-W-EXT-230V

Weather proof stand alone mains voltage powered, wall mounted microwave sensor.

- IP66 enclosure
- Presence detection
- Adjustable light level threshold and adjustable timer
- IR Receiver for remote setup
- Max mounting height: 3m
- Dims: 110 x 110 x 63mm

SOLO Sensor Programmers

HHIR-LCD-PROG

Infrared Programming Handset with LCD display

Advanced compact infrared handset used for the operation, configuration and programming of iLight sensors that have the ability to be programmed via IR.
- Readback: to read the settings from a device
- Flash drive spec: 128MB min to 16GB max, FAT/FAT32, single partition drive
- IR transmit range: Low - 8m, medium - 15m and high - 25m
- Dimensions: 94mm x 160mm x 25mm

HHIR-PROG

Infrared Programming Handset

Compact infrared handset used for the basic programming of IR enabled iLight stand alone sensors.
- IR range: 7m
- Dimensions: 86mm x 4mm x 67mm

Sensors

Low Voltage Sensors

Low Voltage Ceiling Mounted Sensor with Combined PIR, Daylight and Infrared Control

- PIR detection optimised for small movement
- Coverage: 7m Ø at 2.8m ceiling height
- For connection to iCAN networks via UIM, UIG-2, UIS or DALI-I-U devices.
- Dimensions: 49mm Ø x 35mm Depth

AXCS01SRJ

Low Voltage Ceiling Mounted Presence/Absence PIR Sensor.

- PIR detection optimised for small movement
- Coverage: 7m Ø at 2.8m ceiling height
- For connection to iCAN networks via UIM, UIG-2, UIS or DALI-I-U devices.
- Dimensions: 76mm Ø x 68.5mm Depth

PPAD-C-12-24V

Low Voltage Ceiling Mounted Presence/Absence Microwave Sensor.

- Microwave detection optimised for small movement
- Coverage: 12-16m Ø at 2.8m ceiling height
- For connection to iCAN networks via UIM, UIG-2, UIS or DALI-I-U devices.
- Dimensions: 76mm Ø x 68.5mm Depth

MPAD-C-12-24V

Low Voltage Ceiling Mounted Adjustable Presence/Absence Microwave Sensor.

- Microwave detection optimised for small movement
- Coverage: 12-16m Ø at 2.8m ceiling height
- For connection to iCAN networks via UIM, UIG-2, UIS or DALI-I-U devices.
- Dimensions: 76mm Ø x 68.5mm Depth

MPAD-C-A-12-24V

Low Voltage Wall Mounted Weather Proof Presence Microwave Sensor.

- Microwave detection optimised for small movement
- IP66 rated
- Coverage: 6m Ø at 25m length from wall
- For connection to iCAN networks via UIM, UIG-2, UIS or DALI-I-U devices.
- Dimensions: 110mm x 110mm x 63mm Depth

MPD-W-EXT-12-24V

External IP65 Photocell

- Low voltage exterior Photocell Detector
- Daylight sensitivity range approx 0-2,000 lux
- For connection to iCAN networks via UIM, UIG-2, UIS
- IP65 rated.
- Dimensions: 70x50x35mm

PE2EXT

HVAC Control

Heating & Cooling Control

HVAC-1

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 seemlessly integrates with iLight's Lighting and Shading systems as well as integrating directly to BMS.

TSG40

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 heading control

PSU-24AC-DIN

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.

TS-B

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-FL-2M
TS-FL-5M

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.

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.
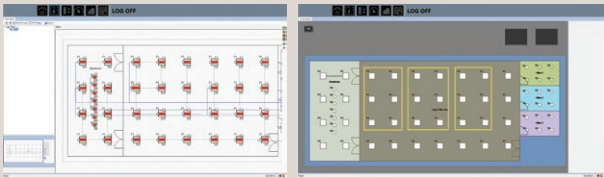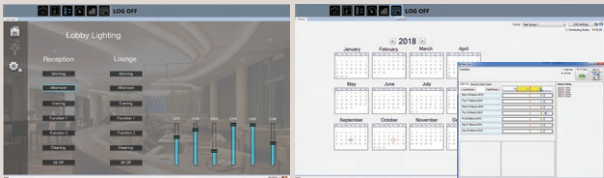
Network overview

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.
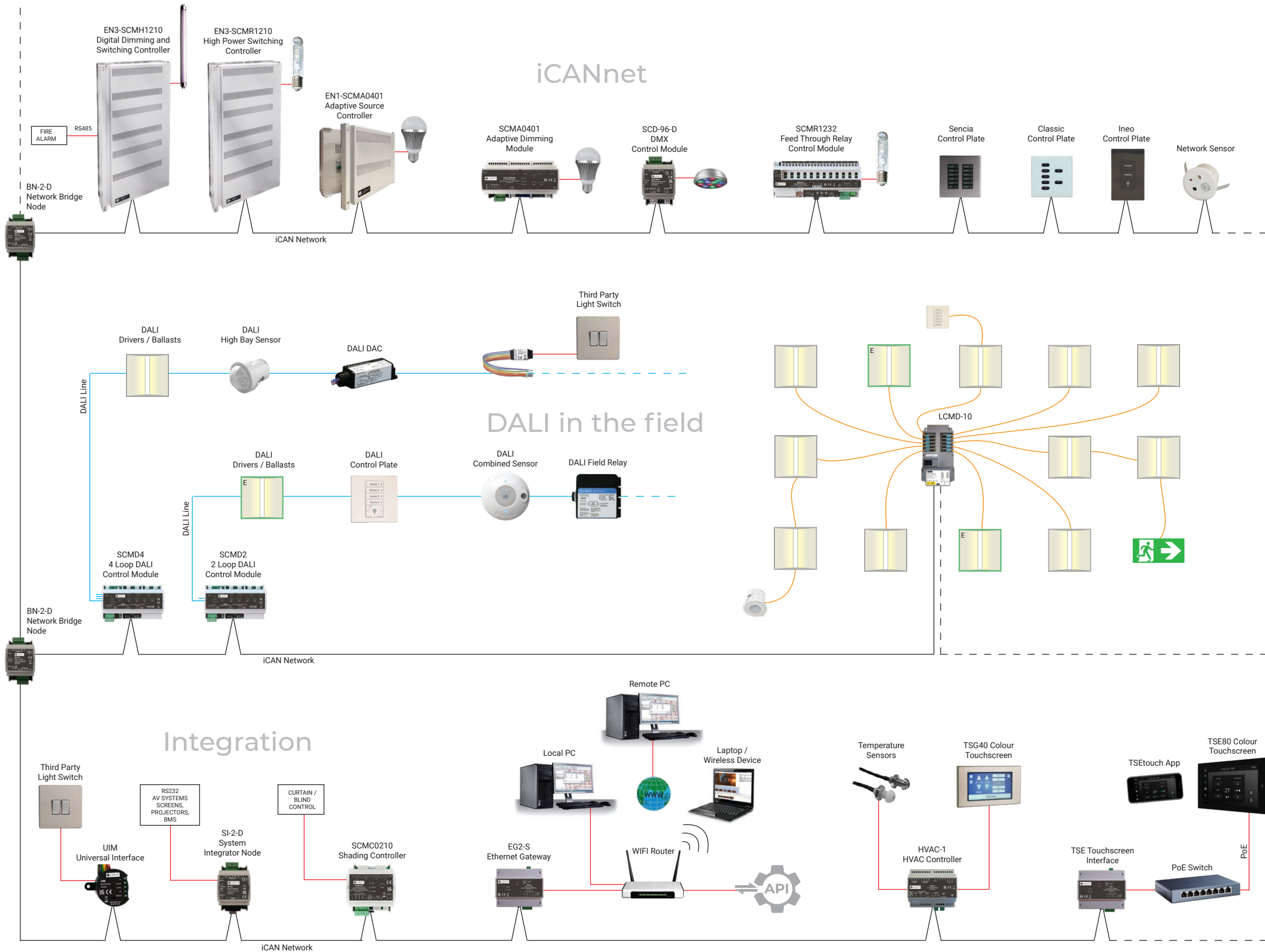
Connectivity

The iLight system provides connectivity to the following protocols;

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

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

iCANnet

EN3-SCMH1210
Digital Dimming and Switching Controller

EN3-SCMR1210
High Power Switching Controller

EN1-SCMA0401
Adaptive Source Controller

SCMA0401
Adaptive Dimming Module

SCD-96-D
DMX Control Module

SCMR1232
Feed Through Relay Control Module

Sencia Control Plate

Classic Control Plate

Ineo Control Plate

Network Sensor

FIRE ALARM RS485

BN-2-D Network Bridge Node

iCAN Network

DALI in the field

DALI Drivers / Ballasts

DALI High Bay Sensor

DALI DAC

Third Party Light Switch

DALI Line

LCMD-10

DALI Drivers / Ballasts

DALI Control Plate

DALI Combined Sensor

DALI Field Relay

DALI Line

SCMD4
4 Loop DALI Control Module

SCMD2
2 Loop DALI Control Module

BN-2-D Network Bridge Node

iCAN Network

Integration

Remote PC

Local PC

Laptop / Wireless Device

Temperature Sensors

TSG40 Colour Touchscreen

TSE80 Colour Touchscreen

TSEtouch App

Third Party Light Switch

RS232
AV SYSTEMS SCREENS, PROJECTORS, BMS

CURTAIN / BLIND CONTROL

WWW

UIM
Universal Interface

SI-2-D
System Integrator Node

SCMC0210
Shading Controller

EG2-S
Ethernet Gateway

WIFI Router

API

HVAC-1
HVAC Controller

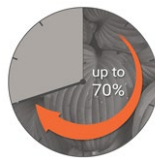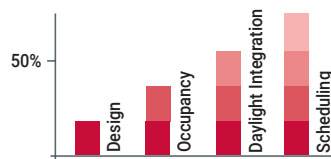TSE Touchscreen Interface

PoE Switch

PoE

iCAN Network

Product Compliance

- CE & UKCA compliant to all relevant standards
- Designed and manufactured to ISO9001 standard
- Dedicated In house R&D and PCBA manufacture
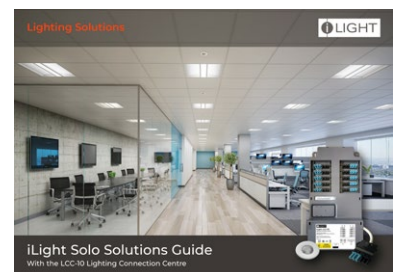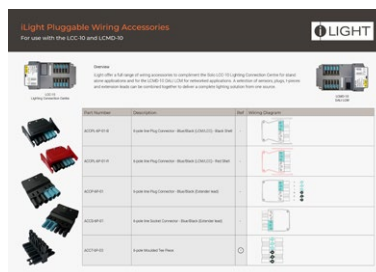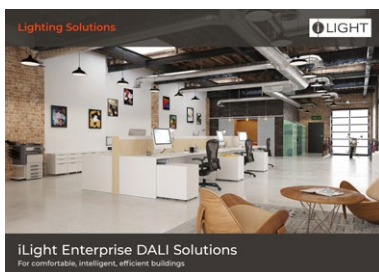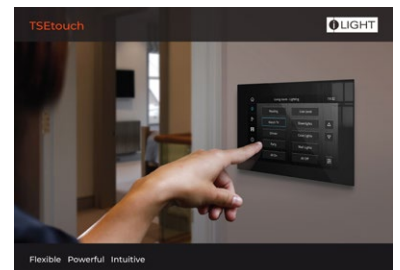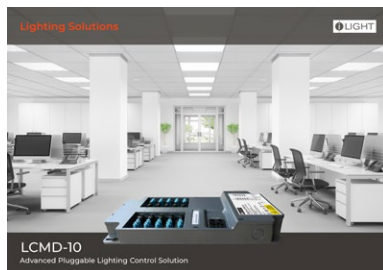- Manufactured in the UK

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

Related iLight literature

LCMD-10
Advanced Pluggable Lighting Control Solution

SCMA0401 Adaptive Dimmer
Simplifying the control of LED lamps

iCANnet System Integration
System integration devices for wider network capabilities

TSEtouch
Flexible Powerful Intuitive

iLight Enterprise DALI Solutions
For comfortable, intelligent, efficient buildings

iLight Pluggable Wiring Accessories

iLight Solo Solutions Guide
With the LCC-10 Lighting Connection Centre

iLIGHT