



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.



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.

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 Pluggable **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



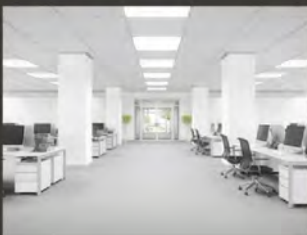
User Interfaces

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.



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



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-2LBLEB-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.

User Interfaces

Classic



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).

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.

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



User Interfaces

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.

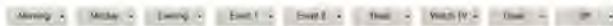
Key Features

- 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



Custom 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.

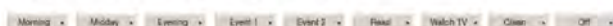
Key Features

- 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).

Finish Codes



Custom Button Engraving Examples



User Interfaces

TSEtouch - TSE80 Ultra High Resolution Colour Touchscreen



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).
- 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.

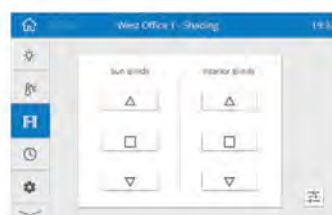
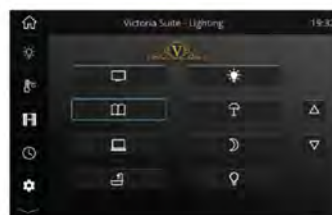
A single touch is all you need for intuitive control of your living and working spaces. TSEtouch puts you in charge of all your intelligent building systems including lighting, shading, heating and cooling.

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.

Custom Graphic Examples



User Interfaces

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 user to control all programmed functions anywhere within the space.



iOS Download
(iTunes)



Android Download
(Google Play Store)

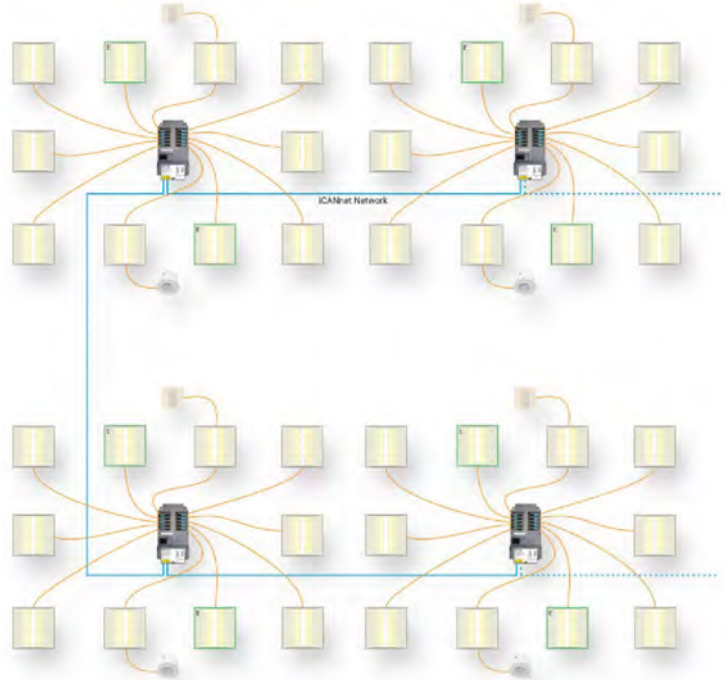


Controllers

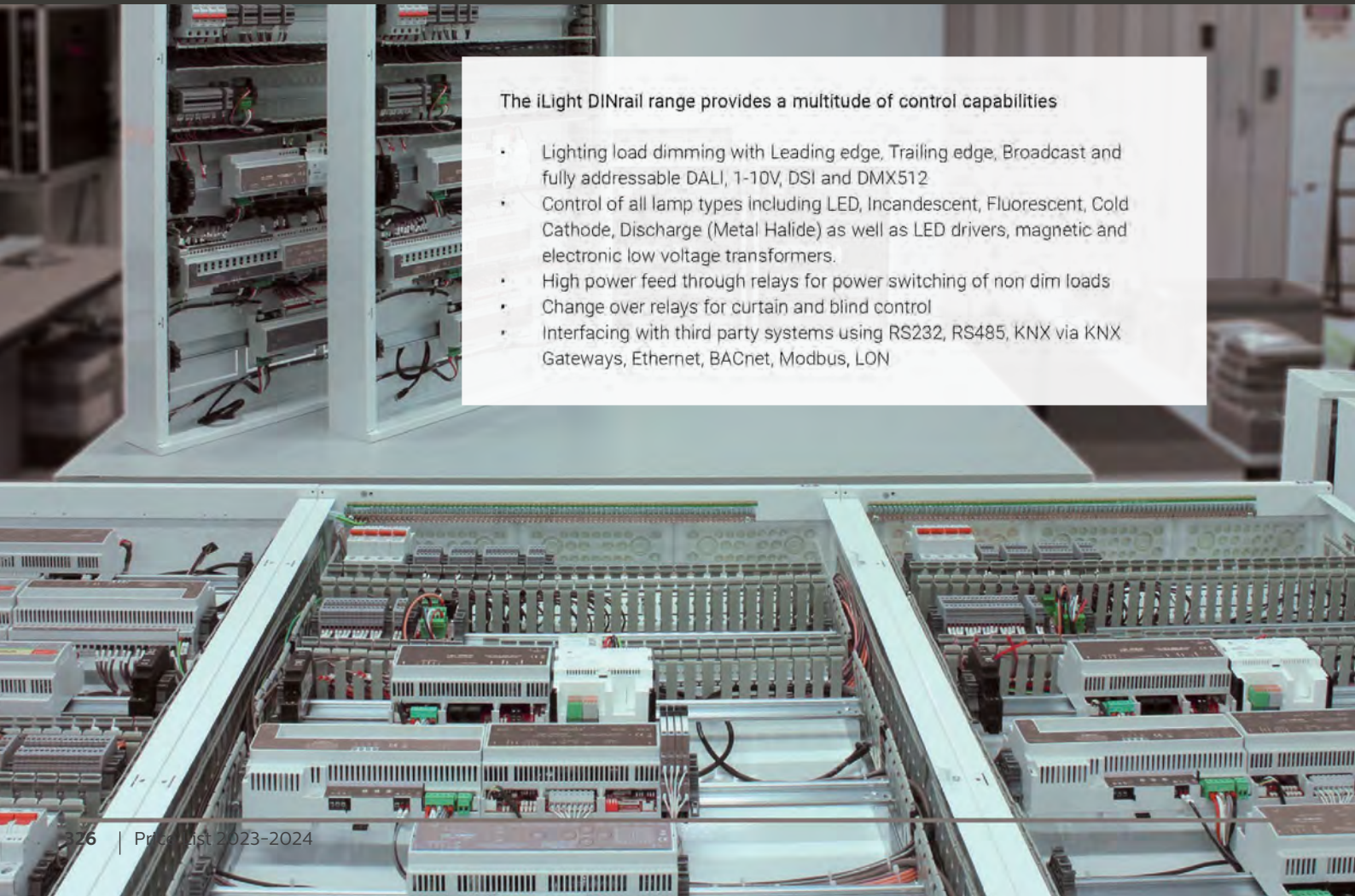
Pluggable Controllers



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.



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

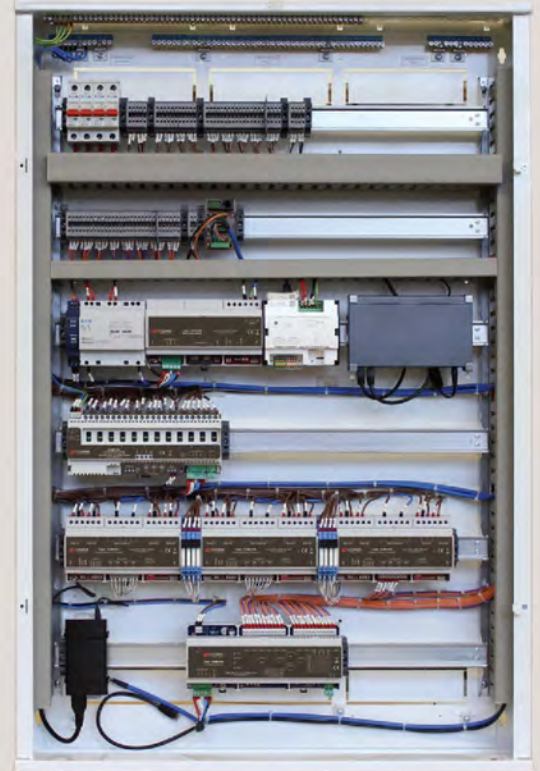
Controllers

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

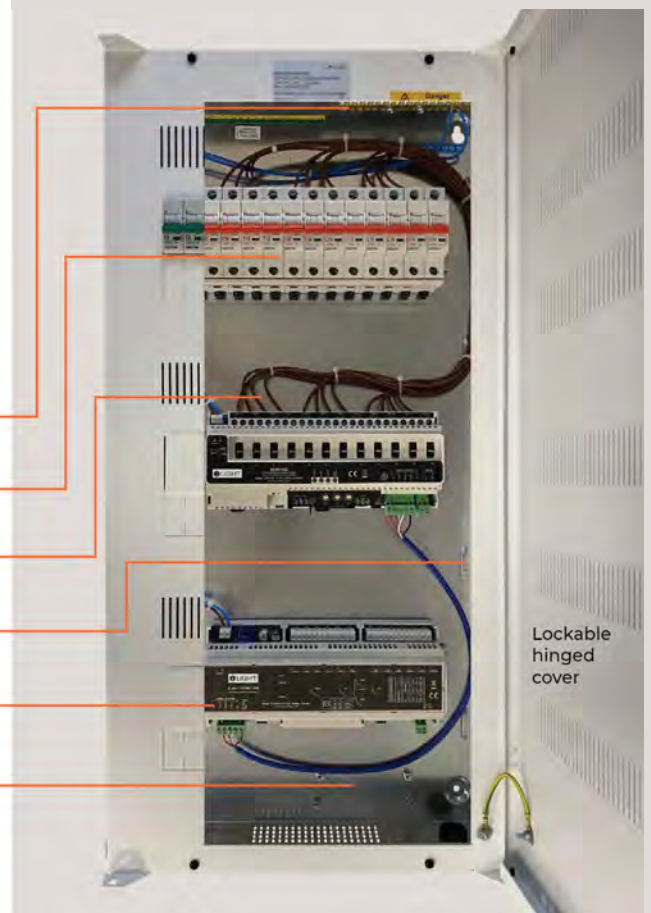
Specifically designed for speed and ease of installation, these pre-populated control enclosures are core building blocks designed to make iLight even easier to specify.

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

Controllers - Pluggable

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

LCC-10



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.

- 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

Controllers - Pluggable

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



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 associated white plug as well as luminaire leads with BESA plug to open 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

Controllers - DINrail Modules

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

Controllers - DINrail Modules

Direct iCAN Network Connection

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



SCMS0410

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



SCMC0210

- 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



SCD96-D

Primary Controller & Output Modules

- 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

Primary Controller (MPM)



MPM2400

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

Connects to MPM



SCMI0402

- 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

Connects to MPM



SCMH0410

Controllers - Hard Wired

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

Controllers - Hard Wired

Adaptive Leading or Trailing Edge Controllers

- 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



EN1-SCMA0401

- 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



EN3-SCMA1201

- 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



SCA0410

- 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



SCA1210

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

EG2-S



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 their systems from anywhere in the world.

- Connects iLight's iCANnet™ network Ethernet/LAN
- Configurable IP address
- Facilitates Ethernet connection into iCANnet™
- 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

TSI-1



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

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, Photo cell 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



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 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



UIG2

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



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-MB-EXT-DALI-ADDR
Exterior IP65 version



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 seamlessly 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 heating 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.

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.

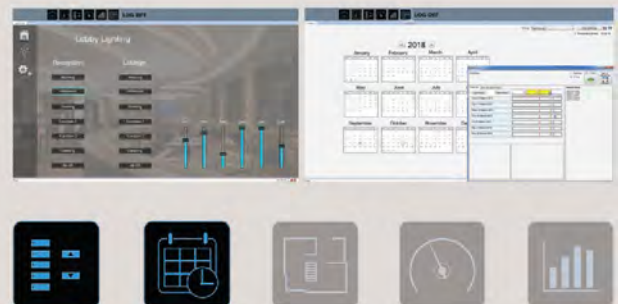
Enterprise Floorplan adds the ability to import building and campus wide floor plans for additional control and feedback on system health.

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.



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;

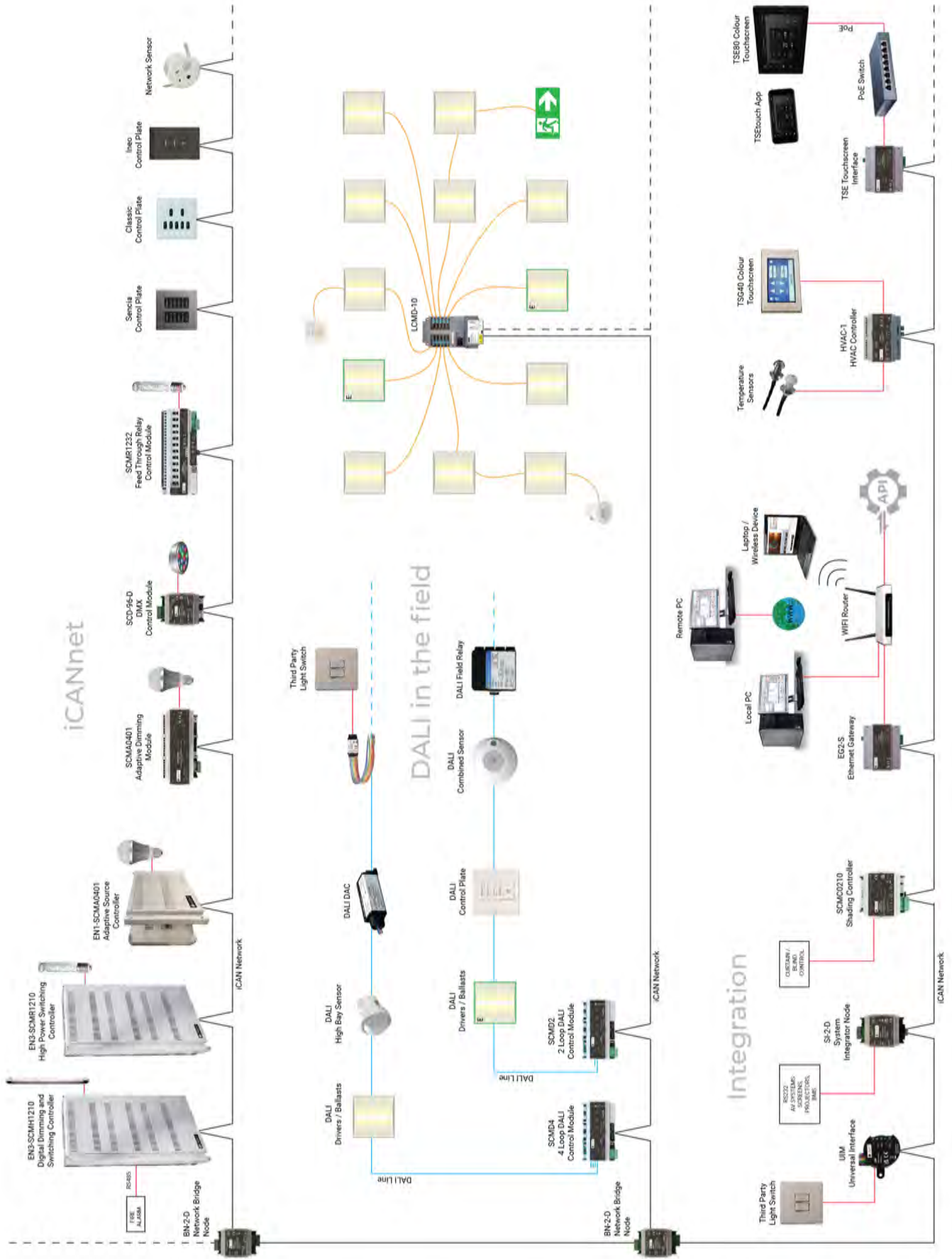
- DALI
- 1-10V
- DSI
- CAN
- RS232
- RS485
- DMX512
- KNX via KNX Gateways
- Ethernet
- BACnet
- Modbus

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





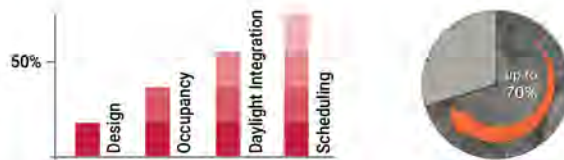
Product Compliance

- 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

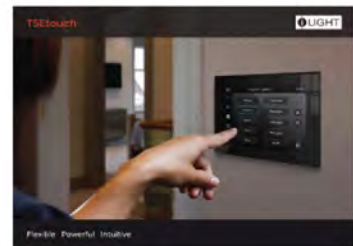
Code Compliance

- 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





Product catalogue

www.once.lighting



Vechta · Germany

About us

ONCE GmbH (formerly iLOX GmbH) is a company based in Germany and Poland (Pifa) with its headquarters in D-49377 Vechta. ONCE GmbH has been a part of SIGNIFY-Netherlands (formerly PHILIPS-Lighting) together with ONCE Inc. from Plymouth (USA) in the Agricultural Lighting division since 2018.

We specialize in the development, manufacture and sale of intelligent and efficient lighting systems for animal breeding.

We focus on dimmable LED solutions, which are specially developed by our engineers for use in animal and poultry farming. The aim here is not only optimum ease of use and practical service properties, but also the well-being of the animals and the associated productivity. The „Animal-centric lighting“ concept developed by ONCE represents the scientific basis for our product innovations.

In contrast to numerous competitors, we do not offer our international customers purchased B2C mass-produced goods, but rather products tailored precisely to customer requirements with an optimized price / performance ratio. In addition, we provide you with technical support for system engineering.

The success of our customers with our products is very important to us! – That is why we maintain a cooperative and direct relationship with them. Through open communication and a trusting exchange of information, we are able to continuously improve our products and at the same time receive new ideas.

We develop and manufacture products with the aim of maximizing quality, efficiency and durability!

We respond to individual customer requests and also offer, for example, special developments with your own product name.

Our R&D team with many years of experienced engineers is also available to our customers for their own electronic product developments.

article-no.

LED-Bulbs E-27

XENA 8.5W LED 2900K energy saving bulb 230V-E27

Dimmable LED energy saving bulb, 230Vac 50/60HZ (1phase+neutral), warm white light color 2900K, 785 lumens max., efficiency 95lm/W, E27 screw base, 37mA, power factor>0.85, CRI>80, 120*60mm K*W, 200° beamangle, lifetime 50,000h(L70), 3 year ONCE warranty, smooth dimming 0-100% by ONCE dimmer controller EPU-1500, 170 pcs.dimmable per ONCE dimmer controller EPU-1500, flicker index<0.05 (no photometric flicker effect to humans/animals)

HS-code:85395000

Net weight: 0.15 kg/pc

Country of origin: People's Republic of China

Optionally available: XENA-PRO 8.5W LED energy-saving lamp 230V-B22 (UK-base), article-no.: 1000000038; Other colours available on request (red, green, blue)

1000000941



E-27 Lighting Fixtures and Accessories

IUL-27 base for wall, ceiling, pendant and wire ropeline fixing

Universal quick installation light fixture with E27 Socket, max. 40W incandescent bulb resp. 12W energy saving bulb, durable and heatresistant plastic, screw cover standard thread 84mm, protection class IP66/D, Contents include: fixture base, silicone gasket, INOX bracket, triangle hook, 2 cable glands M20/IP68, 3 fast fixing terminals 3-pole., 2 screws 4.8*30mm, 2 dowels 8mm

HS-code: 85399010

Net weight: 0,21 kg/pc

Country of origin: People's Republic of China

1000000003



IUL base for wall, ceiling, pendant and wire rope line fixing

Universal quick installation light fixture suitable for ONCE energy saving bulbs for IUL socket, durable and heat resistant plastic, screw cover standard thread 84mm, protection class IP66/D, Contents include: fixture base (without E26/27 socket), silicone gasket IGD-84, INOX-bracket, triangle-hook, 2 glands M20/IP68, 4 fast fixing terminals 3-pole., 2 screws 4.8*30mm, 2 dowels 8mm

HS-code: 85399010

Nettogewicht: 0,17 kg/Stk.

Country of origin: People's Republic of China

1000000012



IGD-84 gasket for 84mm lamp cover glass (spare part)

Suitable for cover glass KGL-84, use for ONCE fixture bases IUL-27 with 84mm thread, Material: silicone, Note: Spare part accessory only, the contents of IUL-bases already includes this gasket

HS-code: 85399090

Net weight: 0,008kg/pc

Country of origin: People's Republic of China

1000000002



article-no

KGL-84 cover glass with 84mm standard thread diameter

1000000004

Transparent cover glass, suitable for installation with IUL-27 base, shockproof PC plastic including UV stabilizer, for use with energy saving bulbs up to 165mm length/ 12W max. or incandescent bulbs 40W max., silicone gasket is not content of delivery
Note: Do not expose permanently to sunlight!

HS-code: 94059200
Net weight: 0,099kg/pc
Country of origin: Federal Republic of Germany



KGL-84-RED cover glass with 84mm standard thread diameter

1000000005

Transparent red color cover glass, suitable for installation with IUL-27 base, shockproof PC plastic including UV stabilizer, for use with energy saving bulbs up to 165mm length/ 12W max. or incandescent bulbs 40W max., silicone gasket is not content of delivery
Note: Do not expose permanently to sunlight!

HS-code: 94059200
Net weight: 0,099kg/pc
Country of origin: Federal Republic of Germany



KGL-84-BLUE cover glass with 84mm standard thread diameter

1000000006

Transparent blue color cover glass, suitable for installation with IUL-27 base, shockproof PC plastic including UV stabilizer, for use with energy saving bulbs up to 165mm length/ 12W max. or incandescent bulbs 40W max., silicone gasket is not content of delivery
Note: Do not expose permanently to sunlight!

HS-code: 94059200
Net weight: 0,099kg/pc
Country of origin: Federal Republic of Germany



KGL-84-GREEN cover glass with 84mm standard thread diameter

1000000007

Transparent green color cover glass, suitable for installation with IUL-27 base, shockproof PC plastic including UV stabilizer, for use with energy saving bulbs up to 165mm length/ 12W max. or incandescent bulbs 40W max., silicone gasket is not content of delivery
Note: Do not expose permanently to sunlight!

HS-code: 94059200
Net weight: 0,099kg/pc
Country of origin: Federal Republic of Germany



article-no.

TULEX-BASIC – LED-tubes 48V «single color»

TULEX-90-3000K LED tubelight 48Vdc

LED tubelight with innovative fast installation plug-cable, 48Vdc, 2W, warm white light color 3000K, 260 lumen, 145° beam angle, lifetime > 50.000 h (L70), 3 year ONCE warranty, smooth dimming 0 – 100% by ONCE power supply SPU-48 or LDU-320-DIM-48V, transparent ammonia resistant-tube 16mm diameter, protection class IP66, UL certified, Safety class III, improved shock prove resistant IK03, quick and easy installation with preassembled plug-cables (male/female), 175 pcs. dimmable per ONCE power supply SPU-48, 150 pcs. dimmable per ONCE power supply LDU-320-DIM-48V, LED light bar 970mm length, length with plug cables: 1630mm, Only use with ONCE power supplies SPU-48 or LDU-320-DIM-48V, operating with low-safety-voltage, not oil-resistant

HS-code: 85395000

Net weight: 0,35 kg/pc

Country of origin: People's Republic of China

1000000154



TULEX-180-3000K LED tubelight 48Vdc

LED tubelight with innovative fast installation plug-cable, 48Vdc, 4W, warm white light color 3000K, 520 lumen, 145° beam angle, lifetime > 50.000 h (L70), 3 year ONCE warranty, smooth dimming 0 – 100% by ONCE power supply SPU-48 or LDU-320-DIM-48V, transparent ammonia resistant-tube 16mm diameter, protection class IP66, UL certified, Safety class III, improved shock prove resistant IK03, quick and easy installation with preassembled plug-cables (male/female), 85 pcs. dimmable per ONCE power supply SPU-48, 75 pcs. dimmable per ONCE power supply LDU-320-DIM-48V, LED lightbar 1890mm length, length with plug cables: 2530mm, Only use with ONCE power supplies SPU-48 or LDU-320-DIM-48V, operating with low-safety-voltage, not oil-resistant

HS-code: 85395000

Net weight: 0,54 kg/pc

Country of origin: People's Republic of China

1000000153



TULEX-90-AMBER LED tubelight 48Vdc

LED tubelight with innovative fast installation plug-cable, 48Vdc, 2W, amber light color 1700K, 220 lumen, 145° beam angle, lifetime > 50.000 h (L70), 3 year ONCE warranty, smooth dimming 0 – 100% by ONCE power supply SPU-48 or LDU-320-DIM-48V, transparent ammonia resistant-tube 16mm diameter, protection class IP66, UL certified, Safety class III, improved shock prove resistant IK03, quick and easy installation with preassembled plug-cables (male/female), 175 pcs. dimmable per ONCE power supply SPU-48, 150 pcs. dimmable per ONCE power supply LDU-320-DIM-48V, LED light bar 970mm length, length with plug cables: 1630mm, Only use with ONCE power supplies SPU-48 or LDU-320-DIM-48V, operating with low-safety-voltage, not oil-resistant

HS-code: 85395000

Net weight: 0,35 kg/pc

Country of origin: People's Republic of China

1000000263



TULEX-180-AMBER LED tubelight 48Vdc

LED tubelight with innovative fast installation plug-cable, 48Vdc, 4W, light color amber 1700K, 440 lumen, 145° beam angle, lifetime > 50.000 h (L70), 3 year ONCE warranty, smooth dimming 0 – 100% by ONCE power supply SPU-48 or LDU-320-DIM-48V, transparent ammonia resistant-tube 16mm diameter, protection class IP66, UL certified, Safety class III, improved shock prove resistant IK03, quick and easy installation with preassembled plug-cables (male/female), 85 pcs. dimmable per ONCE power supply SPU-48, 75 pcs. dimmable per ONCE power supply LDU-320-DIM-48V, LED lightbar 1890mm length, length with plug cables: 2530mm, Only use with ONCE power supplies SPU-48 odr LDU-320-DIM-48V, operating with low-safety-voltage, not oil-resistant

HS-code: 85395000

Net weight: 0,54 kg/pc

Country of origin: People's Republic of China

1000000264



article-no.

TULEX-HO – LED-tubes » **High Lumen Output**«

TULEX-BASIC-HO-120-3000K LED tubelight 48Vdc

LED tubelight with innovative fast installation plug-cable, 48Vdc, 18W, warm white light color 3000K, 2100 lumen, 145° beam angle, lifetime > 50.000 h (L70), 3 year ONCE warranty, smooth dimming 0 – 100% by ONCE power supply SPU-48, transparent ammonia resistant-tube 16mm diameter, protection class IP66, Safety class III, improved shock prove resistant IK03, quick and easy installation with preassembled plug-cables (male/female), 18 pcs. dimmable per ONCE power supply SPU-48, LED light bar 1200mm length, length with plug cables: 1960mm
Only use with ONCE power supply SPU-48, operating with low-safety-voltage, not oil-resistant

HS-code: 85395000
Net weight: 0,406 kg/pc
Country of origin: People's Republic of China

1000000265



TULEX-PRO-HO-120-Junglilite™ LED tubelight 48Vdc

LED tubelight with innovative fast installation plug-cable, 48Vdc, 20W, Junglilite Green light color, 2050 lumen, 145° beam angle, lifetime > 50.000 h (L70), 3 year ONCE warranty, smooth dimming 0 – 100% by ONCE power supply SPU-48, transparent ammonia resistant-tube 16mm diameter, protection class IP66, Safety class III, improved shock prove resistant IK03, quick and easy installation with preassembled plug-cables (male/female), 18 pcs. dimmable per ONCE power supply SPU-48, LED light bar 1200mm length, length with plug cables: 1960mm
Only use with ONCE power supply SPU-48, operating with low-safety-voltage, not oil-resistant

HS-code: 85395000
Net weight: 0,406 kg/pc
Country of origin: People's Republic of China

1000000718



article-no.

Accessories TULEX LED-tube

TSC-16 TULEX – fixing clamp-steel wire suspension

Clamp for fast-fixing TULEX LED-tubelight to steel-wire (3 – 4mm diameter), INOX with rubber-antislip-coating, 3 pieces for TULEX-90, 4 pieces for TULEX-180 and 6 pieces for TULEX 240 needed

HS-code: 94059900

Net weight: 0,003kg/pc

Country of origin: People’s Republic of China

1000000163



TSC-16-6 TULEX – fixing clamp-steel wire suspension

Clamp for fast-fixing TULEX LED-tubelight to steel-wire (3 – 6mm diameter), INOX with rubber-antislip-coating, 3 pieces for TULEX-90, 4 pieces for TULEX-180 and 6 pieces for TULEX 240 needed

HS-code: 94059900

Net weight: 0,003kg/pc

Country of origin: People’s Republic of China

1000000781



TPS-16 TULEX – isolating end cap for plug

Waterproof seal cap for for female-plug or extension cable of the LED-tubelight, 1 pc. per each lighting-line needed, white plastic, thread inside

HS-code: 94059200

Net weight: 0,003 kg/pc

Country of origin: People’s Republic of China

1000000164



TPC-4000 TULEX – supply plug cable

Supply cable for connection switch power supply 48Vdc to TULEX LED-tubelights 48VDC, 4000mm length, with female-plug and opposite cable-end stripped 3*14AWG (3*2,5mm²)

HS-code: 85444290

Net weight: 0,56 kg/pc

Country of origin: People’s Republic of China

1000000168



article-no.

Accessories TULEX LED-tube

TEC-300 TULEX – extension cable with plugs

Extension-cable for TULEX LED-tubelights 48Vdc,
300mm length, with plugs(m/f) – 3-pole

HS-code: 85444290

Net weight: 0,06 kg/pc

Country of origin: People’s Republic of China

1000000165



TEC-1200 TULEX – extension cable with plugs

Extension-cable for TULEX LED-tubelights 48Vdc,
1200mm length, with plugs (m/f) – 3-pole, 3*14AWG (3*2,5mm²)

HS-code: 85444290

Net weight: 0,19 kg/pc

Country of origin: People’s Republic of China

1000000166



TEC-3000 TULEX – extension cable with plugs

Extension-cable for TULEX LED-tubelights 48Vdc,
3000mm length, with plugs (m/f) – 3-pole, 3*14AWG (3*2,5mm²)

HS-code: 85444290

Net weight: 0,44 kg/pc

Country of origin: People’s Republic of China

1000000167



TEC-4000 TULEX – extension cable with plugs

Extension-cable for TULEX LED-tubelights 48Vdc,
4000mm length, with plugs (m/f), - 3-pole, 3*14AWG (3*2,5mm²)

HS-code: 85444290

Net weight: 0,56 kg/pc

Country of origin: People’s Republic of China

1000000169



TEC-4500 TULEX – extension cable with plugs

Extension-cable for TULEX LED-tubelights 48Vdc,
4500mm length, with plugs (m/f), - 3-pole, 3*14AWG (3*2,5mm²)

HS-code: 85444290

Net weight: 0,64 kg/pc

Country of origin: People’s Republic of China

1000000266



article-no.

LED-transformer and accessories

SPU-48 switch-power-transformer 48Vdc-2 channel

Electronic switch power supply (transformer) 48Vdc-350 Watt max., suitable for brightness controlling of LED circuits 48Vdc with dropping resistor (1- resp. 2-channels/light colors, 220 – 240Vac 50/60Hz, DC-Output 1 = PWM-dimming 48Vdc or voltage controlling 24 – 48Vdc, DC-Output 2 = PWM-dimming 48Vdc, analogue-interface for connecting potentiometer 10kOhm or external computersignal 0-10Vdc, digital-interface RS-485 (MODBUS), LCD-Display with keyboard, alarmrelay, alarm-buzzer, voltage stabilized and short-circuit proof of DC-Out, permissible ambient temperature -10° – +40°C max., durable aluminium wall enclosure with 7 cable inlets M20/M16: dimensions 180x300/350x96mm WxHxD, protection class IP65, Safety class I
Contents include: 5 pieces M20 and 2 pieces M16 cable glands, manual

1000000152



HS-code: 85044082

Net weight: 3,62 kg/pc

Country of origin: Republic of Poland

Dimmers

EPU-1500 electronic dimmer controller 230VAC

Universal controller/AC-dimmer for LED, CFL-, incandescent bulbs etc., load 1500VA-max., intelligent microprocessor-MOSFET-controller, adjustable to trailing-edge or leading-edge dimming, manual operating by turnknob and push-buttons in front, automatic adjusting by ext. computer analogue-signal 0 – 10Vdc or remote-pot. (10 – 100kOhm) or RS485-digital-interface communication, electronic. protection of overheating/ overload/ shortcircuit/undervoltage, alarm signalization by buzzer-beep and LEDs and via alarm-relay-output, many special softwarefunctions integrated, for power extension use more units by MASTER/SLAVE, VDE certified, power supply 230Vac 50/60Hz; dimensions: 105x90x60mm WxHxL, fixable on 35mm-DIN-rail, protection class IP20, Safety class II, ambient temperature -10° – 40°C
Important note: max. load 230VAC per unit recommend (see manual/data-sheet also): 170 pcs. XENA 7W; 150 pcs. ILU-MAX 8W; 54 pcs. SILOX LED tubes 22W; 50 pcs. SILOX LED tubes 24W; 35 pcs. incandescent bulb 40W

1000000180



HS-code: 90328900

Net weight: 0,385 kg/pc

Country of origin: Republic of Poland

article-no.

BioShift UV-C disinfection units

BioShift UV-C disinfection unit - small

BioShift UV-C disinfection unit - small with two doors, dimensions 750x590x600mm, material stainless steel SS304, Power Supply 110-240Vac 50/60Hz, powerconsumption 100VA, protection class IP50, Safety class I, 4pcs. UV Lamps 15W, include two stainless steel trays, control over touchpanel and one switch on each Door side, 1.5m cables with connector Type F+G included

HS-code: 84192000

Net weight: 57kg

Country of origin: People's Republic of China

1000000372



BioShift UV-C disinfection unit - large

BioShift UV-C disinfection unit - large with two doors, dimensions 762x1100x1828mm, material stainless steel SS304, Power Supply 110-240Vac 50/60Hz, powerconsumption 600VA, protection class IP50, Safety class I, 18pcs. UV Lamps 30W, include two stainless steel trays, control over touchpanel and one switch on each door side

HS-code: 84192000

Net weight: 170kg

Country of origin: People's Republic of China

1000000375



PHILIPS

Aquaculture LED

SeaCage 340W



Advance your aquaculture

Datasheet

The robust Philips Lighting Seacage 340W is built on our heritage of more than 125 years of expertise in lighting. It is designed to support both marine and or land based fish farms in the optimization of growing fish. It combines the unique fishlight spectrum with an unbeatable performance, supporting the smaller cages or deeper tanks at hatcheries / RAS installations. Connected to the management tools it provides unprecedented opportunities to utilize photoperiod illumination optimizing fish farming under every condition.

The downward facing light provides efficient light distribution by bringing light where the fish swim throughout the complete pen. This helps keeping your fish healthy below the sea lice zone. The luminaire enables you to improve your operations by reducing the maturation to zero while drastically reducing sea lice infestations.

Key benefits

- Maturation reduced to nearly zero
- Grow your fish faster
- Efficient light distribution
- Minimize exposure to sea lice
- Save energy cost
- Easy to handle and store
- Extreme durability

Superior lighting technology improving your site operations

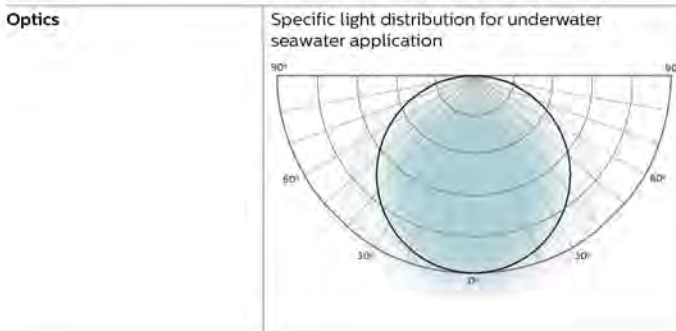
Our software tools supporting in commissioning and scheduling offer full visibility and control of the lights installed. You can securely access and monitor the individual light points, set schedules and adjust light levels on demand. A user-friendly dashboard provides a complete view on the installation and gives you real-time insights into the status of the lights. With the simple interface you can set light recipes optimizing the photoperiod benefits to the max.

Consistent operations year after year

Philips SeaCage 340W is extremely durable via the highest marine grade alloy constructions. It requires minimal hardware maintenance, no lamp replacements, and in case desired supported by easily replaceable cables and anodes. Software maintenance and upgrades are also done remotely.

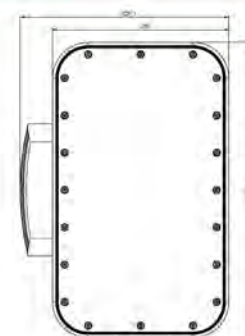
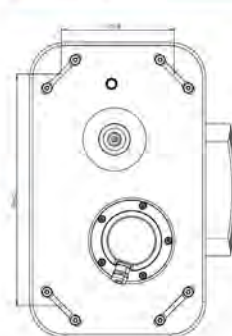
Specifications

Type	SEACAGE G3 LED/FL 340W
Product code	929002100286 340W 220V Powerline System
	929002100287 340W 220V Slow Ramp up
	929002100328 340W 220V DALI System
	929002100351 340W 220V DALI Slow Ramp up
Ingress protection code	IP68 [continuous submerged at max depth 20m]
Mechanical impact protection code	IK08 [5 J vandal-protected]
Light source	Integral LED module
Power	340 W
Luminous flux	51.000 lm
Luminaire efficacy	150 lm/W
Maintenance of Lm output	>90% at 70000 hours



Optical cover	Glass, flat
Mains voltage	220-240 V / 50-60 Hz
Operating current	1.6A (2.3A max)
Protection class IEC	I [Safety class I]
Weight luminaire	14.4 kg
Weight submerged	-6.0 kg
Electrical cable length	50 m (1.5 mm ² wires)
Connector	No connector, sleeved cable ends
Control system input	Specialized Philips Lighting Controller
User interface	Philips Aquaculture User Interface
Material	Aluminum, marine water rated Front cover: PMMA
Spare parts	Anode spare part 340/680 12NC: 929002100318
Powercable	Non-DALI: H07BQ-F 3G1,5 DALI: H07BQ-F 5G1,5 Cable diameter cable gland: Ø 7.0 – 13.0mm
Certificates	CE, IP68

Dimensions



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*The price upon request



Advance your aquaculture

Datasheet

Our cutting-edge land-based aquaculture lighting offer in combination with its control systems are made to help to push your production further. Fish have adapted to the changes in light in their natural environment by evolving a biological clock that is synchronized and driven by light stimuli from their environment. This clock entrains physiological and behavioral processes that impacts the growing and perception of the season. Equipped with our patented fish light spectrum we provide a powerful tool for enhancing the fish production and welfare.

The key challenge for land-based farming is to mimic nature in a fully controlled environment. Philips Aquaculture lights do what they are made to do; provide artificial light, replacing the sun by utilizing the unique fish light spectrum in an uniform fashion everywhere in the cage, avoiding shadows, flickering or other elements that create stress. Our unique electronics ensure the deepest dimming levels (0.3%) and provide gradual ramp up behavior. The Philips Aquaculture lighting system has been designed with focus on the animals needs first, making it perfectly suited to hatcheries and RAS facilities! Thanks to the superior software applications provided with the connected lighting infrastructure farmers can program cages in accordance to the growth stage while keeping control on the behavior.

Key benefits

- Synchronise light with the daily visual needs
- Optimise feeding and distribution of fish in the tank
- Reduce fish stress by gradually adjusting the light intensity and adopting sunrise/ sunset and moonlight simulation (0.3% dimming levels)
- Improve feed conversion rates utilizing the unique Philips Aquaculture lighting spectrum.
- Assist in the smoltification process
- Delay sexual maturation improving growth rates and harvest weight.
- Full control on the seasonal growth cycles
- Easy remote monitoring and control
- Tank & site specific lighting commissioning and scheduling
- Remote software maintenance and upgrading

Superior lighting technology improving your site operations

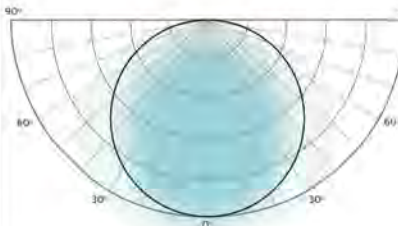
Our software tools supporting in commissioning and scheduling offer full visibility and control of the lights installed. You can securely access and monitor the individual light points, set schedules and adjust light levels on demand. A user-friendly dashboard provides a complete view on the installation and gives you real-time insights into the status of the lights. With the simple interface you can set light recipes optimizing the photoperiod benefits to the max.

Consistent operations year after year

FreshWater 125W Fishlight UltraDim is extremely durable via the highest marine grade alloy constructions. It requires minimal to no hardware maintenance. Software maintenance and upgrades are also done remotely.

Specifications

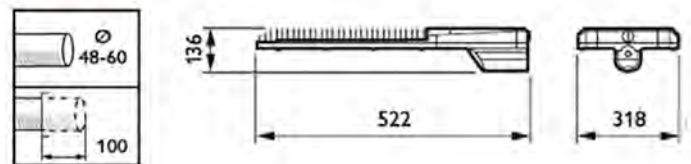
Type	Freshwater 125W Fishlight UltraDim
Product code	929002100366 824110189751
Ingress protection code	IP65 [Dust penetration-protected, jet-proof]
Mechanical impact protection code	IK08 [5 J vandal-protected]
Light source	Integral LED module
Power	125 W
Luminous flux	16.500 lm
Deepest dimming level	0.3% dimming level
Luminaire efficacy	135 lm/W
Maintenance of Lm output	>90% at 70000 hours

Optics	Specific distribution for tanks
	



Optical cover	Glass, flat
Mains voltage	220-240 V / 50-60 Hz
Inrush current	62A @ 260 μs (time to 50% of Ipeak) = 16.1 Ams
Operating current	0.65A (0.8A max)
Protection class IEC	[Safety class I]
Weight	8 kg
Connector	Mains + DALI
Control system input	DALI by Philips Lighting Controller
User interface	Philips Aquaculture User Interface
Material	Housing, gear-cover, clip: high pressure die-casted aluminum, non- corrosive Glass: thermally hardened Gear tray: steel
Color	Canopy, cover, clip: gray (RAL7040)
Certificates	CE, IEC (60529)

Dimensions



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*The price upon request

PHILIPS

Aquaculture

FreshWater 250W Fishlight UltraDim



Advance your aquaculture

Datasheet

Our cutting-edge land-based aquaculture lighting offer in combination with its control systems are made to help to push your production further. Fish have adapted to the changes in light in their natural environment by evolving a biological clock that is synchronized and driven by light stimuli from their environment. This clock entrains physiological and behavioral processes that impacts the growing and perception of the season. Equipped with our patented fish light spectrum we provide a powerful tool for enhancing the fish production and welfare.

The key challenge for land-based farming is to mimic nature in a fully controlled environment. Philips Aquaculture lights do what they are made to do; provide artificial light, replacing the sun by utilizing the unique fish light spectrum in an uniform fashion everywhere in the cage, avoiding shadows, flickering or other elements that create stress. Our unique electronics ensure the deepest dimming levels (0.3%) and provide gradual ramp up behavior. The Philips Aquaculture lighting system has been designed with focus on the animals needs first, making it perfectly suited to hatcheries and RAS facilities! Thanks to the superior software applications provided with the connected lighting infrastructure farmers can program cages in accordance to the growth stage while keeping control on the behavior.

Key benefits

- Synchronise light with the daily visual needs
- Optimise feeding and distribution of fish in the tank
- Reduce fish stress by gradually adjusting the light intensity and adopting sunrise/sunset and moonlight simulation (0.3% dimming levels)
- Improve feed conversion rates utilizing the unique Philips Aquaculture lighting spectrum.
- Assist in the smoltification process
- Delay sexual maturation improving growth rates and harvest weight.
- Full control on the seasonal growth cycles
- Easy remote monitoring and control
- Tank & site specific lighting commissioning and scheduling
- Remote software maintenance and upgrading

Superior lighting technology improving your site operations

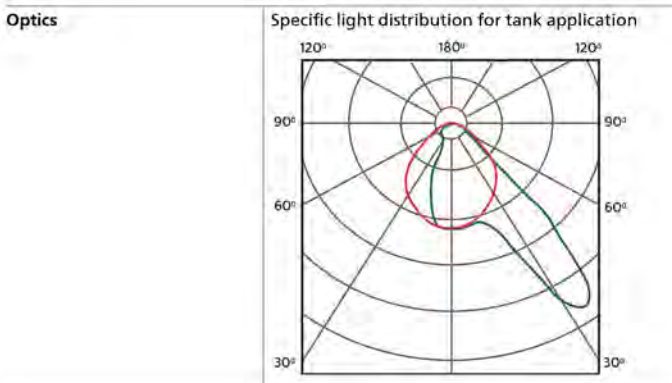
Our software tools supporting in commissioning and scheduling offer full visibility and control of the lights installed. You can securely access and monitor the individual light points, set schedules and adjust light levels on demand. A user-friendly dashboard provides a complete view on the installation and gives you real-time insights into the status of the lights. With the simple interface you can set light recipes optimizing the photoperiod benefits to the max.

Consistent operations year after year

FreshWater 250W Fishlight UltraDim is extremely durable via the highest marine grade alloy constructions. It requires minimal to no hardware maintenance. Software maintenance and upgrades are also done remotely.

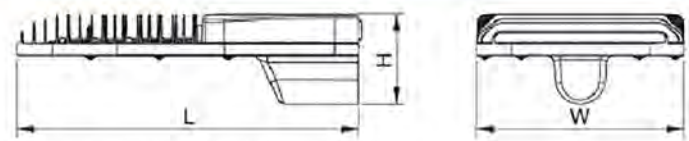
Specifications

Type	FreshWater 250W Fishlight UltraDim
Product code	929002100367 824110189761
Ingress protection code	IP65 [Dust penetration-protected, jet-proof]
Mechanical impact protection code	IK08 [5 J vandal-protected]
Light source	Integral LED module
Power	250 W
Luminous flux	33.000 lm
Deepest dimming level	0.3% dimming level
Luminaire efficacy	135 lm/W
Maintenance of Lm output	>90% at 70000 hours



Optical cover	Glass, flat
Mains voltage	220-240 V / 50-60 Hz
Inrush current	112A @ 300 μs (time to 50% of Ipeak) = 33.6 Ams
Operating current	1.2A (1.5A max)
Protection class IEC	[Safety class I]
Weight	14 kg
Connector	Mains + DALI
Control system input	DALI by Philips Lighting Controller
User interface	Philips Aquaculture User Interface
Material	Housing, gear-cover, clip: high pressure die-casted aluminum, non-corrosive Glass: thermally hardened Gear tray: steel
Color	Canopy, cover, clip: gray (RAL7040)
Certificates	CE, IEC (60529)

Dimensions



L x W x H = 853 x 318 x 136mm



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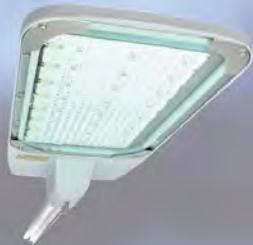
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Advance your aquaculture

Datasheet

Our cutting-edge land-based aquaculture lighting offer in combination with its science proven shrimp recipes are made to help to push your production further. Shrimps perceive light directly through their eye's retina and extraretinal photoreceptors, for example: neuropils in the eyestalk, ventral eye.etc, that are associated with the circadian rhythm. These photoreceptors are sensitive to blue and green light, which influence their biological clock and their behavior. Equipped with our patented shrimp light spectrum we provide a powerful tool for enhancing the shrimp production and welfare.

Vannamei shrimp is very commonly grown in high intensity shrimp industry. The shrimp industry has variable impacts from environment, for example: Early mortality syndrome (EMS), which leads to a lack of stability in the farming system and inconsistent shrimp production output. Philips Aquaculture lights can improve the aquaculture system in a fully controlled environment. The Philips Aquaculture lighting has been designed with focus on the animals needs first, making it perfectly suited to clear water and biofloc facilities.

Key benefits

- Synchronize light with shrimp daily needs
- Optimise feeding and muscle build up
- Reduce shrimp stress by gradually adjusting the light intensity and adopting sunrise/sunset simulation
- Improve feed conversion rates utilizing the unique Philips Aquaculture lighting spectrum
- Full control on the seasonal growth cycles
- Accelerate shrimp growth with preprogrammed scheduling and dynamic lighting recipe

Work as a DynaDim mode or enhance the feature with external Philips Dynalite controller

DynaDim mode

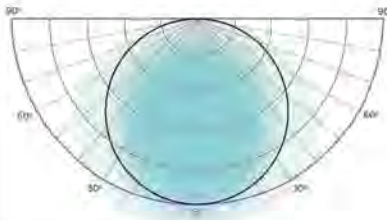
The 260W shrimp runs in DynaDim mode, making it simple for shrimp farmers to begin the recipe. DynaDim mode works with luminaires by simply switching off/on the power to begin the daily recipe, thanks to the state-of-the-art design of the embedded software program in luminaire. We advice adding an external clock, so as to automate the daily recipe cycle one hour before sunrise for outdoor tank, for instance: power on at 05:00 in the morning, to simulate the natural sunrise.

Combined with external Dynalite controller

The Dynalite controller gives the ability to enhance the feature of 260W shrimp with a real-time clock, which begins the light one hour before sunrise from the local time zone and progressively fades the light according to a daily recipe cycle. The Dynalite controller provides for luminaire time zone and geographical location setting. Alternatively the Dynalite controller can also provide for a predetermined start time, ensuring a seamless work flow for the shrimp farmers.

Specifications

Type	AquaAdvance 260W Shrimp
Product code	824110115592
Ingress protection code	IP66 [Dust penetration-protected, jet-proof]
Mechanical impact protection code	IK08 [5 J vandal-protected]
Light source	Integral LED module
Power	260 W (2-channel blue green with patented short wavelengths)
Luminous flux	22.000 nom & 20.000 min
Luminaire efficacy	84 lm/W (when both channels 100%)
Maintenance of Lm output	>90% at 70000 hours

Optics	Specific light distribution for tank application
	

Optical cover	Glass, flat
Mains voltage	220-240 V / 50-60 Hz
Inrush current	106A@300 μs (time to 50% of Ipeak) = 31.8 Ams
Operating current	1.2A (1.5A max)
Protection class IEC	[Safety class I]

Weight	10 kg
Connection	Connection unit 3 poles (power) + 2 poles (DALI controller)

Two control options	<ol style="list-style-type: none"> Internal Dynadim; automatic daily recipe cycle when switch on power External Dynalite control: optimized recipe with real time clock
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Material	Housing, gear-cover, clip: high pressure die-casted aluminum, non- corrosive
	Glass: thermally hardened
	Gear tray: steel
Color	Canopy, cover, clip: gray (RAL7040)

Certificates	CE, IEC (60529)
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Dimensions



L x W x H = 739x314x138



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