Introducing Go

- Lowering costs
- Enabling flexibility
- App based commissioning
- Empowering users
- Reducing risk

Go, next generation lighting control

Offering plug-and-play installation and fast commissioning, Go simplifies the complexity of lighting controls in a wide range of applications. Built-in Bluetooth Mesh and wireless app programming means that Go is completely future-proof, meeting the needs of today’s and tomorrow’s lighting controls.

Go’s flexible configuration offers direct DALI dimming control of up to 9 luminaires in 3 groups, with input from both 3 multi-sensors and 3 switch devices. With emergency control and reporting on board, Go is not only fast to install, but reduces the maintenance and through life cost of any installation.

Bluetooth Mesh lighting control
INTELLIGENT CONTROL MADE SIMPLE

Independent control of up to 9 luminaires

With Go, you can control luminaires simply and efficiently. Go has 9 output ports for luminaires, which can be configured in up to 3 separate groups. This allows Go to be used to control lighting in a variety of applications, from education and healthcare to commercial offices and hotels. Each group is pluggable using industry standard connectors, ensuring fast, error-free installation.

Switching and dimming from up to 6 sources

As well as 9 output ports, Go can receive control input from up to 6 different switch and sensor inputs. There are 5 switch inputs for both latching and retractive switches, and 1 sensor input, which support occupancy, absence, presence and constant lux control. As with luminaires, these control devices can be simply plugged in to the Go module.

Bluetooth Mesh Networking as standard

Go offers Bluetooth Mesh Networking functionality as standard, allowing each Go module to communicate wirelessly with its neighbours. This means that previously complex control functions can be simply configured using the free Go app. When combined with the dedicated Go multi-sensor, lighting can be made to react to changes in daylight, presence or absence, and Go's Bluetooth Mesh Networking has the capability to control luminaires across an entire space, not just those plugged directly to the individual Go unit. This means that fewer multi-sensors are required in a space, reducing costs and installation time, as well as simplifying commissioning. Advanced control functions such as corridor linking can also be achieved, without the need for hard wiring or line-of-sight installation.

App based configuration

At the heart of each Go module is an intelligent computerised control hub, which can be programmed simply via the free Go app, available on both Android and iOS devices. The app communicates directly with each Go module via Bluetooth allowing the user complete control over commissioning and configuration in any application. Individual luminaires can be set as groups and linked to switching and dimming multi-sensors.
FEATURE RICH SOLUTIONS

Dedicated multi-sensor
A dedicated multi-sensor is available to enhance the functionality of Go, offering both daylight and presence detection and infra-red control. This discrete multi-sensor can be recessed or surface mounted, and controlled via the Go app to perform a number of different functions. When combined with the Bluetooth Mesh Network feature in Go, a single multi-sensor can control any number of luminaires. For areas requiring larger detection areas, multiple multi-sensors can be used to control large groups of luminaires, or multiple groups can be configured inside a single space.

Integral emergency control, testing and reporting
Go supports emergency lighting as standard, whether integral to luminaires or as stand-alone remote lighting. As part of the Go app, emergency lighting can be tested remotely without the need for costly engineer visits. Emergency control and testing are transmitted directly from one Go module to neighboring modules, via a wireless mesh network, allowing multiple Go module configurations to act as one. The resulting test reports can be accessed directly from the Go app, giving the user instant emergency reporting and record keeping.

Reducing installation time and commissioning
Go’s simple plug-and-play functionality reduces installation time by up to 50% compared with traditional lighting controls. Go can be fitted in advance of the ceiling, then luminaires and multi-sensors are simply plugged in, providing power and lighting control through the same connection. Commissioning is simple, and does not require a separate commissioning team to configure lighting and controls. Putting control back into the hands of the contractor. Each Go module is discovered via the free Go app, and from there each luminaire and multi-sensor can be identified, grouped, and controls configured. This can be done at any time, either by the contractor, building owner, or end-user. Reconfiguration is simple, making Go the most flexible and simple lighting control solution available today.

Simple Scene Setting
From the Go App, users can configure and add up to 6 scenes. This means that scene setting can be achieved without the need for an additional wall mounted scene plate.

Additional System Functionality
Go can be used for more than just lighting control. A large number of building services can be controlled through the Go module, including extractor smoke multisensors and valve solenoids. This allows for a completely integrated facilities management approach, which can reduce installation time and reduce testing regimes.
ARM PELION IOT PLATFORM INTEGRATION

Go is designed using market leading Arm Cortex processors and is integrated with Arm Pelion IoT Platform.

The Pelion IoT Platform enables Go with flexible, secure, and efficient foundation spanning connectivity, device and data management. It allows users to easily connect trusted Go LCMs on global networks, invisibly administer them, and extract real-time data from them to drive operational and business advantage.

Security for Devices, Connectivity, and Data

Build a safe Go LCM network with endpoint security, resilient networking, secure device updates and communication, and secure ingestion and correlation of large volumes of real-time data.

Device Management

Device Management enables secure and reliable onboarding, connection, updates, and lifecycle management of Go LCMs deployed on premises or over cloud.

- Security built in from chip to cloud to mitigate vulnerabilities
- Reduction in complexity of managing GO LCMs

Flexibility in Design, Deployment, Connectivity

Future-proof your Go LCMs with the flexibility of any device, any data, any network, any cloud. Connect constrained to feature-rich devices on narrow-band to high-speed networks for deployments on premises or over public, private, or hybrid clouds to deliver many types of insightful data.

Simple, Secure and Energy Efficient Connectivity

Device Management Connect enables unified connectivity from cloud applications, through Pelion Device Management and on to GO LCMs, and provides industry standard end-to-end transport security. It enables IoT device communication via REST APIs to enterprise software and web applications.

Full Control and Device Management via REST API

Once the Go LCM is securely connected Device Management Connect, making them visible within Pelion Device Management communication can be enabled using the REST API.

The REST API is the interface that configures Device Management and performs device management actions. The API is based on the RESTful paradigm providing a consistent view of API Resources, and support for CRUDL operations (Create, Read, Update, Delete and List). Requests and responses use HTTP methods (GET, PUT, POST and DELETE). All Pelion Device Management services are accessible via the REST API.

Robust Management of Constrained Devices

Device Management Client Lite is the client profile optimized for application specific devices such as Go LCMs.
GO IN THE OFFICE

Fast and flexible installation

Whether in Cat A or Cat B commercial space, Go is the ideal lighting control solution. Fast to install and flexible in operation, Go meets the ever-changing demands of the modern office. Rapid to install, Go can vastly reduce overall commissioning times. Bluetooth configuration allows luminaire and control groups to be instantly created, or updated as the space requires. Bluetooth Mesh Networking between Go modules allows users to create large scale control networks, with each module reacting to its neighbours. Go enables any lighting scheme to operate at its most efficient, enabling compliance with the highest levels of BREEM, whilst Go’s emergency testing and reporting functions enable adherence to BS EN 5266.
GO IN EDUCATION
Simple, effective control for the classroom

Go is the ideal lighting control solution for use in the classroom. Optimised around a standard 9 luminaire layout, Go can be configured to maximise daylight harvesting, reducing energy consumption by limiting artificial lighting usage. With a range of switching options, features such as whiteboard override are simple to programme and install. Installation is fast and commissioning simple, minimising installation time and costs. Go enables compliance with all relevant standards in education lighting, including CFA and EFA specifications.
GO IN HEALTHCARE

Putting the patient in control

With the drive towards single bed wards and giving the patient control over their environment, Go is perfectly suited for the healthcare environment. The plug-and-play nature of Go means that simple installation and control of multiple luminaires and control points in both bed and bath areas is assured. Pre-programmed scenes can be configured via the Go app, allowing both patient and care professional complete control over the 1st environment. Go’s emergency testing and reporting features simplify emergency lighting test procedures, allowing reporting schedules to be configured and sent directly to the facilities managed via the accompanying Go app.
TECHNICAL DATA

Go is the next generation of lighting control.
Go takes lighting control from the domain of specialist engineers and makes it available to installers and end-users without compromising on functionality.

FEATURES
- 9 port LCM, with 3 switching relays groups
- Fully pluggable design
- 3 switch inputs supporting latching and retractive switches
- 3 sensor inputs supporting occupancy, presence and constant lux control
- DALI auto addressing
- DALI automatic replacement detection
- Bluetooth programming using free Android and iOS app
- Wireless mesh network for transmission of emergency tests and corridor functions

NETWORK
- Bluetooth 4.2 networking. Auto discoverable with password security
- Android and iOS app for configuration and monitoring

POWER
- Wieland GST16 male plug
- Wieland GST16 female plug
- 18 A 250V rating Screw clamp connections for LNE, E, + and -
- Cable cross section area from 0.5 to 2.5mm

SWITCH INPUTS
- 3 pole 5.08mm pitch plug
- Cable cross section area from 0.5 to 2.5mm

SENSOR INPUTS
- FCC68 4/4 (RJ11) terminations for 3 sensors
- Sensor cables available from Prolijk
- Sensor cables are available in 5, 10 and 15m lengths

OUTPUTS
- 2 ports Wieland GST16 male plug Black/Blue
- Screw terminal for LNE, E, + and -
- Cable cross section area from 0.5 to 2.5mm
- Wieland Order: 92.961.0158.1

OUTPUTS
- 7 ports Wieland GST16 male plug Black
- Screw terminal for LNE, + and -
- Cable cross section area from 0.5 to 2.5mm

SPECIFICATIONS

Features
- Multiple scene setting via UK remote controller
- Redundant I/O: sensor input modal failure detection
- Group outputs of power unit
- Firmware upgrade ability
- Internal LED indicators - diagnostic
- Printing EM test results and RLE printer
- Inputs and outputs configurable if required
- 9 output lighting control module
- DALI dimming control
- Simple integration and wiring
- Extra low depth for shallow ceiling voids

Outputs
- 3 x independently addressable output groups
- 1 x 36V, 3 x 5V
- Emergency light setting installation on 3 dedicated ports (3, 5, 9)
- Max output per port: 6.3A

Inputs
- 3 x low voltage inputs for switch
- 3 x occupancies, light level inputs

Networking
- Bluetooth 4.2 and Bluetooth mesh networking
- Cabling and Connectors
- Max 64 ports
- 9 x outputs: Wieland GST16 x 2, Wieland GST16 x 7
- Max DALI dimming load: 10mA

Dimensions
- 250mm x 250mm x 25mm (LxWxH)

Fixings
- 3 x 8mm fixing holes (suitable for drop rod or surface mounting)
- 4 x 7mm holes for drop rod or surface mounting

Safety
- EN 60 555
- Isolation: 4kV between mains and sensors control
- Conformance and Evidence
- Generic emission: EN 55 018 part 1
- Generic immunity: EN 55 018 part 1
- IEC61, 051
- DALI 2.1 certified
- ARCOM Hades Spec 2015 Classification 29.07.15

Environment
- Storage
- Temperature: -20°C to +55°C
- Humidity: 0% to 90% non-condensing
- In Use
- Temperature: 0°C to +40°C
- Humidity: 10% to 90% non-condensing

Mains Input
- Mains supply: 230Vac +/- 10%/50Hz
- Power factor: 0.9
- Connection: input male socket for PC18V Wieland GST16 male plug
- Plug not included (Available from Prolijk)

Sensor Switch Input
- Sensor supply: 12Vdc +/- 5%, 30mA
- Sensor location: 2m
- Connection: PC18V x4 (R10)