GE’s modular indoor lighting control solution is scalable and highly flexible making it easier to meet specification without having to over-engineer the control design. From a single space to multiple facilities, from simple schedules to advanced energy management systems...our solution can be easily designed and tailored to address your lighting control needs.

Component modules simply snap in and are factory installed in panels or field installed remotely.

Scalable system from switching platform to time clock to computer interface to web enabled.

Installed as stand-alone or networked panels.

Device networking done using Cat 5 cabling.

Web server for custom graphic and remote control using a web browser.

- Pre-wired RR7 or RR9 relays
- Push-button override with LED status indication for each relay
- Maintenance free flash memory

### Ordering

A complete assembly consists of four components

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLCTUBXX</td>
<td>Metal Tub</td>
</tr>
<tr>
<td>CLCCOVXXS</td>
<td>Metal Cover</td>
</tr>
<tr>
<td>CLCINTERXXXXX</td>
<td>Interior with Optional Modules</td>
</tr>
<tr>
<td>CLCXFRXX</td>
<td>120/277 or 347 VAC Transformer</td>
</tr>
</tbody>
</table>

### Optional Components

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLCGSM8</td>
<td>Group Switch Module</td>
</tr>
<tr>
<td>CLCRMS6/CLCRM6</td>
<td>Relay Module</td>
</tr>
<tr>
<td>CLCPIM</td>
<td>Power Injector Module</td>
</tr>
</tbody>
</table>

### Network Components

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLCDLS</td>
<td>Dataline Scheduler</td>
</tr>
<tr>
<td>CLCSWTX</td>
<td>Dataline Switch</td>
</tr>
</tbody>
</table>

### Specifications

#### Enclosure Sizes (HxWxD)

- 6 relay: 12” x 12” x 4.1”
- 12 relay: 23.1”x14.2”x 4.1”
- 24 relay: 38.1”x14.2”x 4.1”
- 36 relay: 48.9”x14.2”x 4.1”
- 48 relay: 60.1”x14.2”x 4.1”

#### Inputs

Switch, motion sensor and photocell

#### Outputs

- Relay output
- Network devices
- Additional Panels
- Dataline switches
- Dataline scheduler

#### Communications Port

CAN Network @40k bps

#### Device Address

Set via rotary dials Address range: 1 to 99

#### Connectors

- Class 1: lighting circuit loads
- Class 2: module connections

#### Network Wiring

CAT5

#### Input Power

- 120 VAC or 277 VAC 50Hz/60Hz
- 347 VAC 50Hz/60Hz

#### Ambient

- 32°F to 104°F (0°C to 40°C), with enclosure 10-90% RH (non-condensing)

#### Approvals/Standards

UL 916
**Specifications**

**Inputs**
- 6 2-position closed-contact switch inputs (RMS6)

**Outputs**
- Compatible with RR7 and RR9 relays

**Technology**
- 32-bit ARM Processor with internal A/D, Flash and RAM

**Communications Port**
- CAN Network @40k bps

**Device Address**
- Set via rotary dials Address range: 1 to 99

**Connectors**
- Inputs: spring-clip terminal connectors
- Outputs: 5-pin MTA
- Network/Power: (2) 4-pin MTA

**Wiring Class**
- Class 2

**Power**
- 24 VAC
- 4 VA

**Ambient**
- 32° to 131°F (0° to 55°C), with enclosure
- 10-90% RH (non-condensing)

**Dimensions**
- 5 1/2 x 4 3/4 x 1 1/8 in.
- (14 x 12.1 x 2.9 cm) with housing
- 0.34 lb. (155g) with housing

**Compliance**
- CE
- FCC

**Approvals/Standards**
- UL 916
The CLCGSM8 Group Switch Module will connect up to eight inputs to the Modular Lighting Control System. Through the color-coded spring clip terminals, the device supports switches, photocells and motion sensors. When not used for switches, the pilot light terminals may be configured to provide power to the connected sensors simplifying installation.

Pushbutton programming provides a simple means of assigning the input to group of relays and other group inputs on the lighting network. Module doubles as a power injector distributing power to the panel’s relay modules and the lighting network, providing status indication for network power monitoring.

- 8 programmable inputs
- Inputs can be configured for switches, photocells or motion sensors
- Color-coded spring-type terminals for switch wiring
- Pushbutton programming capable for basic operation
- Toggle switch state via pushbutton
- Jumper selectable for binary contacts or analog photocell
- Communicating on CAN lighting network

Application

The CLCGSM8 provides a way to map a variety of system input devices such as switches, motion sensors and photocells to relays and smaller nested lighting groups. Status indication on the device is derived from the status of the devices which is under its control providing immediate useful feedback about them. Pushbutton programming allows users to quickly program basic group switch to relay associations, while more advanced motion sensor and photocell operation is programmed via software or the dataline scheduler.

Specifications

Inputs/Outputs
8 4-position connectors for closed-contact switch/motion/photocell inputs including pilot/locator light outputs

Technology
32-bit ARM Processor with internal A/D, Flash and RAM

Communications Port
CAN Network @40k bps

Device Address
Set via rotary dials Address range: 1 to 99

Connectors
Power In: 5-pin MTA
Inputs: spring-clip terminal connectors
Network/Power: (2) 4-pin MTA, (2) RJ45

Wiring Class
Class 2

Power
24 VAC
14.5 VA

Ambient
32° to 131°F (0° to 55°C), with enclosure
10-90% RH (non-condensing)

Dimensions
5 1/2 x 4 3/4 x 1 1/8 in.
(14 x 12.1 x 2.9 cm) with housing
0.34 lb. (155g) with housing

Compliance
CE
FCC

Approvals/Standards
UL 916

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The **CLCPIM** Power Injector Module is used to provide 24 VAC power to field devices (network switches) or can be used in relay panels instead of the **CLCGSM8** if there is no need for Group Switching.

- Provides network continuity and power for field devices or relay panels.

### Application

The **CLCPIM** can be used in relay panels if no group switching or dimming functions are required. **CLCPIM** allows to expand the number of switches connected to the dataline.

### Ordering

Order the controller and desired options with the following product numbers:

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLCPIM</td>
<td>Power Injector Module</td>
</tr>
</tbody>
</table>

### Specifications

<table>
<thead>
<tr>
<th>Inputs/Outputs</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communications Port</td>
<td>CAN – pass through</td>
</tr>
<tr>
<td>Device Address</td>
<td>No address required</td>
</tr>
<tr>
<td>Connectors</td>
<td>Power In: 5-pin MTA, Network/Power: (2) 4-pin MTA, (2) RJ45</td>
</tr>
<tr>
<td>Wiring Class</td>
<td>Class 2</td>
</tr>
<tr>
<td>Power</td>
<td>24 VAC, 14.5 VA</td>
</tr>
<tr>
<td>Ambient</td>
<td>32° to 131°F (0° to 55°C), with enclosure 10-90% RH (non-condensing)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>5 1/2 x 4 3/4 x 1 1/8 in. (14 x 12.1 x 2.9 cm) with housing 0.34 lb. (155g) with housing</td>
</tr>
<tr>
<td>Compliance</td>
<td>CE, FCC</td>
</tr>
<tr>
<td>Approvals/Standards</td>
<td>UL 916</td>
</tr>
</tbody>
</table>

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LightSweep™
Modular Lighting Control System

CLCDIM4

The CLCDIM4 dimming module controls four dimming channels. Through the color-coded spring terminals, the device provides 0-10V dimming controlled by a photocell for daylighting operations, as well as advanced scene control via devices in the CLC network.

The module can be powered via the CLC network or can double as a power injector distributing power to the panel’s relay modules and the lighting network, providing status indication for network power monitoring.

- Connects up to 4 photocell inputs
- Connects up to 4 0-10V dimming outputs
- Color-coded spring-type terminals for photocell and ballast
- Closed-loop daylighting control built into channel
- LED output indication of level
- Jumper selectable for network or transformer power
- Communicating on CAN lighting network.

Application
The CLCDIM4 provides daylighting and analog scene control to the CLC system.

The channels daylighting setpoint, or analog outputs can be controlled using switches in the CLC system so that operation is coordinated with On/Off relay control of the circuits.

Photocell control provides closed loop control for indoor type sensors, and open loop control for outdoor, atrium or skylight sensors. Closed loop will allow setpoint control to a given footcandle value, while open loop control will linearly vary the output based on a specified range of the photocell.

Specifications

Inputs/Outputs
4 photocell inputs/
4 – 0-10v outputs – 25mA sync current per output

Technology
32-bit ARM Processor with internal A/D, Flash and RAM

Communications Port
CAN Network @40k bps

Device Address
Set via rotary dials Address range: 1 to 99

Connectors
Power In: 5-pin MTA
Inputs: spring-clip terminal connectors
Network/Power: (2) 4-pin MTA, (2) RJ45

Wiring Class
Class 2

Power
24 VAC
13 VA

Ambient
32° to 131°F (0° to 55°C), with enclosure
10-90% RH (non-condensing)

Dimensions
5 1/2 x 4 3/4 x 1 1/8 in.
(14 x 12.1 x2.9 cm) with housing
0.34 lb. (155g) with housing

Compliance
CE
FCC

Approvals/Standards
UL 916

Ordering
Order the controller and desired options with the following product numbers:

CLCDIM4  4 Channel Dimming Module

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The CLCDLS can turn On and/or Off up to 60 individual relays or lighting control groups for each schedule, with scheduling exceptions or astro functionality. Any lighting control group in the network may enable or disable functionality based on time of day by subscribing to any schedule.

The dataline scheduler doubles as a user interface into the lighting network allowing the user to configure, edit and operate all switches, sensors, relays and remote schedules in the system. It can be mounted in the LCP or on a standard electrical wall box for mounting in the space. Each CLCDLS adds 8 schedules to the system, providing scalability for any advanced lighting application scenarios.

Application

The CLCDLS provides 8 schedules to control any relays or groups in the lighting system. It also provides astronomical clock information, calculating sunrise and sunset times based on UTC and location. 8 additional lighting control groups are available for Common Area control or other grouping needs.

The device is powered off the same structured cabling which powers the CLCSWTx Network Switches, and provides a user interface into the network for configuring any device in the network independent of where it is located.

- 3.5” Full Color Touchscreen
- 8 weekly schedules with up to 8 durations per day
- Single or recurring exceptions to each schedule
- Real time clock with Super-cap backup
- Configuration interface for entire lighting network
- Astronomical clock functionality
- 8 additional programmable groups
- Communicating and powered from CAN lighting network

Ordering

Order the controller and desired options with the following product numbers:

CLCDLS  Touchscreen Dataline Scheduler

Specifications

Technology
32-bit ARM Processor with internal A/D, Flash and RAM

Communications Port
CAN Network @40k bps

Device Address
Set via touchscreen Address range: 1 to 99

Connectors
Network/Power: (2) RJ45

Wiring Class
Class 2

Power
24 VDC
3 VA

Ambient
32° to 131°F (0° to 55°C), with enclosure 10-90% RH (non-condensing)

Dimensions
5 x 3 1/4 x 1 1/4 in.
(12.7 x 8.3 x 2.6 cm) with housing
0.34 lb. (155g) with housing

Compliance
CE
FCC

Approvals/Standards
UL 916
LightSweep™
Modular Lighting Control System

CLCBNET

The CLCBNET controller expands the features of a stand-alone Lighting Control System to a fully programmable computer front-end system, with capability for seamless integration to EMS using the BACnet protocol.

It is a fully programmable native BACnet controller, supporting the BACnet MS/TP, BACnet over Ethernet and BACnet IP.

The CLCBNET maps the lighting system’s objects: relays, analog I/O’s (dimming channels, photocell inputs) and provides control and schedule functionality.

It is a fully programmable native BACnet controller, supporting the BACnet MS/TP, BACnet over Ethernet and BACnet IP.

The CLCBNET maps the lighting system’s objects: relays, analog I/O’s (dimming channels, photocell inputs) and provides control and schedule functionality.

• Controls up to 99 CAN devices
• Dynamically learns all devices on the CAN bus and displays the object configuration.
• Allows for remote programming and monitoring via Ethernet or TCP/IP
• Push-button switch for automatic program transfer to CAN devices
• Custom programming
• Event logging and trending, alarming

Application

CLCBNET is used for applications requiring computer front-end for programming and monitoring, integration to EMS using the BACnet protocol, web interface for lighting control system, campus applications with remote buildings or multi-site applications.

Specifications

Communication Ports
- CAN lighting network
  • Communication speed 40 kbps
  • Maximum 99 nodes per CAN segment
- Ethernet
  • 3-Port 10/100 Switch
  • BACnet IP, BACnet Ethernet
- USB – 2 USB ports

Inputs
- Two push-buttons (Reset, Transfer)

Technology
- ARM Processor with internal Flash and RAM
- Real-time clock
- Ultra capacitor backup for RTC

Device Address
- BACnet - set via software
- CAN – set to 100

Connectors
- CAN Network 3-pin terminal
- Ethernet – 3-port RJ45 connector
- Power: 2-pin terminal
- BACnet RS485: 3-pin terminal

Wiring Class
- Class 2

Power
- 24 VAC 50/60 Hz, 12VA
- 10-28 VDC, 4.2W

Ambient
- 32° to 131°F (0° to 55°C), 10-90% RH (non-condensing)

Dimensions
- 5”x5.4”x2.6”

Compliance
- CE
- FCC

Approvals/Standards
- UL 916

Ordering

Order the controller and desired options with the following product numbers:

CLCBNET BACnet Interface Module

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## Specifications

**Inputs**  
- 8 capacitive touch switch buttons  
- 1 capacitive touch program button  

**Outputs**  
- 8 pilot/locator light outputs  

**Technology**  
- 32-bit ARM Processor with internal Flash and RAM  

**Communications Port**  
- CAN Network @40k bps  

**Device Address**  
- Set via rotary dials  
- Address range: 1 to 99  

**Connectors**  
- Network/Power: (2) RJ45  

**Wiring Class**  
- Class 2  

**Power**  
- 24 VDC  
- 0.5 VA  

**Ambient**  
- 0° to 131°F (0° to 55°C), with enclosure  
- 10–90% RH (non-condensing)  

**Dimensions**  
- 4.13 x 1.65 x 0.71 in.  
- (10.5 x 4.2 x 1.8 cm) with housing  
- 0.1 lb. (47g) with housing  

**Compliance**  
- CE  
- FCC  

**Approvals/Standards**  
- UL 916
LightSweep™
Modular Lighting Control System

CLCTSIX

The CLCTSIX is a 7-inch diagonal, high resolution, wide-screen format, color LCD used for interfacing with the LightSweep™ modular lighting control system. The CLCTSIX uses BACnet over Ethernet to communicate with controllers on a local area network. User created graphics allow the CLCTSIX to be completely customized for a given application.

- High resolution, wide-screen display
- Touch screen interface, no stylus required
- Attractive, modern design, install in any location
- Panel, wall, new and retrofit wallboard mounting
- Create custom graphics using GE software
- Modify controller schedules and calendars
- Display and acknowledge alarms
- Change setpoints, monitor inputs and outputs
- Multiple users and passwords for restricting access
- Supports BACnet over Ethernet communications
- Firmware can be flash loaded over the network

Application

The CLCTSIX allows operators to monitor and manage LightSweep™ modular lighting control system by using custom real-time graphics. Designed to be mounted in small spaces, the CLCTSIX can be wall or panel mounted in an administrative area, allowing for light monitoring, setting time schedules, or changing the output level for the daylight harvesting. It can also be used as a Master Switch station to control the lighting in different sections in the building using custom graphic screens representing the floor layouts.

Specifications

<table>
<thead>
<tr>
<th>BACnet Device Profile</th>
<th>BACnet Operator Display (B-OD) (proposed new profile)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication</td>
<td>BACnet over Ethernet</td>
</tr>
<tr>
<td>Technology</td>
<td></td>
</tr>
<tr>
<td>32-bit ARM9 Processor @ 240MHz</td>
<td></td>
</tr>
<tr>
<td>256MB Flash Memory</td>
<td>(~195 MB available for graphics and CLCTSIX database)</td>
</tr>
<tr>
<td>Real-time clock</td>
<td></td>
</tr>
<tr>
<td>Super capacitor for 72-hr backup of real-time clock</td>
<td></td>
</tr>
<tr>
<td>LCD Display</td>
<td></td>
</tr>
<tr>
<td>Touch screen LCD with 7-inch diagonal widescreen display</td>
<td></td>
</tr>
<tr>
<td>High resolution 800 x 480 (WVGA), 16bit color</td>
<td></td>
</tr>
<tr>
<td>~40,000 hrs backlight lifetime</td>
<td></td>
</tr>
<tr>
<td>Sound</td>
<td></td>
</tr>
<tr>
<td>2-Speakers</td>
<td></td>
</tr>
<tr>
<td>Occupancy Sensor</td>
<td></td>
</tr>
<tr>
<td>Passive infrared motion sensor</td>
<td></td>
</tr>
<tr>
<td>5m detection</td>
<td></td>
</tr>
<tr>
<td>Approvals/Standards</td>
<td></td>
</tr>
<tr>
<td>UL 916</td>
<td></td>
</tr>
</tbody>
</table>

Ordering

Order the controller and desired options with the following product numbers:

<table>
<thead>
<tr>
<th>CLCTSI-1</th>
<th>Operator Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLCTSI-2</td>
<td>BACnet System Manager</td>
</tr>
<tr>
<td>CLCTSI-3</td>
<td>BACnet System Manager with embedded web server</td>
</tr>
</tbody>
</table>

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The **UL 924** panel can be included as a part of any LightSweep system. The UL 924 panel provides for control of emergency circuits when main power is interrupted.

GE’s modular indoor lighting control solution is scalable and highly flexible making it easier to meet specification without having to over-engineer the control design. From a single space to multiple facilities, from simple schedules to advanced energy management systems...our solution can be easily designed and tailored to address your lighting control needs.

Scalable system from switching platform to time clock to computer interface to web enabled. Installed as stand-alone or networked panels. Device networking done using Cat 5 cabling. Web server for custom graphic and remote control using a web browser.

### Specifications

**Enclosure Sizes (HxWxD)**
- 24 relay: 38.1”x14.2”x 4.1”
- 48 relay: 60.1”x14.2”x 4.1”

**Inputs**
- Switch, motion sensor and photocell

**Outputs**
- Relay output
- Network devices
- Additional Panels
- Dataline switches
- Dataline scheduler

**Communications Port**
- CAN Network @40k bps

**Device Address**
- Set via rotary dials Address range: 1 to 99

**Connectors**
- Spring-clip terminal connectors
- RJ45 for network

**Wiring Class**
- Class 1: lighting circuit loads
- Class 2: module connections

**Network Wiring**
- CAT5

**Input Power**
- 120 VAC or 277 VAC 50Hz/60Hz

**Ambient**
- 32° to 104°F (0° to 40°C), with enclosure 10-90% RH (non-condensing)

**Approvals/Standards**
- UL916; UL 924

### Ordering

A complete assembly consists of four components:

- **CLCTUBXX**  Metal Tub (24 or 48 size only)
- **CLCCOVVXXS**  Metal Cover (24 or 48 size only)
- **CLCXFRMV** 120/277 Transformer
- **INTE24-S12-G00X** 12 emergency circuits
- **INTE48-S18-G00X** 18 emergency circuits plus 12 normal circuits
- **INTE48-S24-G00X** 24 emergency circuits

x = 1 for 120VAC contactor, 2 for 277VAC contactor