

LightSweep® Lighting Controls

LightSweep® Modular Lighting Control System

Project Name _____

Date _____ Type _____

Catalog Number _____



Description

Current'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 Information

A complete assembly consists of four components

SKU	Product Description
CLCTUBXX	Metal Tub
CLCCOVXXS	Metal Cover
CLCINTERXXXX	Interior with Optional Modules
CLCXFRXX	120/277 or 347 VAC Transformer

Optional Components

SKU	Product Description
CLCGSM8	Group Switch Module
CLCRMS6/CLCRM6	Relay Module
CLCPIM Power	Injector Module

Network Components

SKU	Product Description
CLCDLS	Dataline Scheduler
CLCSWTX	Dataline Switch

Specifications

Enclosure Sizes	(HxWxD)
6 relay:	12" x 12" x 4.1"
12 relay:	23.1" x 14.2" x 4.1"
24 relay:	38.1" x 14.2" x 4.1"
36 relay:	48.9" x 14.2" x 4.1"
48 relay:	60.1" x 14.2" 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° to 104°F (0° to 40°C), with enclosure 10-90% RH (non-condensing)
Approvals/ Standards	UL 916

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Application

The **CLCRMx6** provides control of up to six relays per module allowing a lighting panel to be built up based on the number of relays the panel requires and reducing costs. This also allows for simple expansion of a panel to add in additional modules and relays until the panel capacity is reached.

The version of the module has six 2-position (On/Off) terminals with pilot/locator functionality. These terminals allow for 3-wire and 2-wire Momentary and Maintained switch operation based on how the switches are wired to the terminals.

Description

The **CLCRMx6 Relay Module** will connect up to six RR style relays to the modular lighting control system. Supports relays with or without feedback with LED status indication and pushbutton toggle operation.

The **CLCRMS6** has six switch input terminals with pilot light operation for relays which have the optional feedback, or jumper selectable locator light operation for those without.

- Controls up to 6 relays with or without feedback
- Optional relay control via 6 hardwired switch inputs
- Color-coded spring-type terminals for switch wiring
- Push button programming capable for basic operation
- Toggle relay state via push button
- Jumper selectable for Pilot or Location switch functionality
- Communicating on CAN lighting network

Ordering Information

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

SKU	Product Description
CLCRM6	6 Relay Control Module
CLCRMS6	6 Relay Control Module with 6 direct-control switch inputs

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

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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.



Description

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 groups 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

Ordering Information

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

SKU	Product Description
CLCGSM8	8 Group Switch Module

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
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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.

Ordering Information

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

SKU	Product Description
CLCBNET	BACnet Interface Module

Specifications

Communications Ports	CAN lighting network <ul style="list-style-type: none">Communication speed 40 kbpsMaximum 99 nodes per CAN segment Ethernet <ul style="list-style-type: none">3-Port 10/100 SwitchBACnet IP, BACnet EthernetUSB-2 USB
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" x 5.4" x 2.6"
Compliance	CE/FCC
Approvals/Standards	UL 916

Description

The **CLCBNET controller** expands the features of a stand-alone Lighting Control System to a fully programmable with 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.

- 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

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RRx Mechanically Latching Relays



DESCRIPTION

The RRx series relays are mechanically latching devices for direct plugin into the Lighting Automation Panels.

Each relay employs a split low-voltage (24V) coil to move the line voltage contact armature to the ON(OFF) latched position.

This operation provides several key control features:

- Positive action. The relay always goes to the state commanded. For example, multiple OFF commands will keep the contacts in the OFF position.
- Stable operation. Since the relay latches in the ON or OFF position, power outages do not result in a change of state.
- Minimal power consumption. Control power is only required when the relay changes state.
- Ability to support multiple input devices. After the relay responds to a momentary pulse, it is then “free” to accept another pulse from any other control devices wired to it. The relay position is always controlled by the last signal.
- The RR9PBP includes an auxiliary pilot contact on the low voltage side to provide status indication.

Ordering Information

SKU	Product Description
RR7PBP	RR relay w/o pilot & 5-pin connector
RR7P3	RR relay w/o pilot & 3-pin connector
RR9PBP	RR relay with pilot & 5-pin connector

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Specifications

Rated Capacity

Lighting Load	20 A Tungsten filament 125VAC 30 A Ballast 277VAC, 347VAC
Resistive Load	30 A @ 277VAC, 347VAC
Motor Load	1/2HP @ 110 - 125VAC 1½ HP @ 220 - 277VAC

Operating Environment

Temperature	0 to 60°C (32 to 140°F)
Relative Humidity	10 to 95% RH, non-condensing
Atmosphere	Non-explosive, non-corrosive
Vibration	Stationary applications NEMA Level A

Endurance

Full Load	50,000 cycles
No Load	100,000 cycles

Line-Voltage Characteristics

Contacts	SPST maintained (mechanically latching)
Terminals	2 Terminals w/2 back-wiring holes per terminal Use with #14-10 AWG solid or stranded copper wire only

Low-Voltage Characteristics

Split coil	½ for ON, ½ for OFF
Operating Voltage	24-29VAC (±10%) Rectified (Minimum 21 VAC rectified) 30-38 VDC (±10%) Filtered
Duty Rating	Momentary – minimum 50 msec
Coil resistance	55-60 Ohms
Pilot Contact (RR9)	1A 24-29 VAC Resistive

Approvals/Standards

cUL 916

RELAY DIMENSIONS

