



LIGHTING CONTROLS

RETROFIT LIGHTING CONTROL INTERIOR WITH BACNET® AND METASYS N2® CL SERIES RETROFIT INTERIOR

DESCRIPTION

Many stand-alone and proprietary lighting control panels become inoperable with age. When the cost and downtime involved with a complete replacement of the stand-alone system is not an option, an alternative is Retrofit Interiors. A Retrofit Interior is a complete package including brain transplant (Controller) and relays.

FEATURES

- Reduces installation labor up to 60%, install in less than 4 hours (typical)
- Re-use of line voltage wire, conduit, and enclosures
- Schedule, monitor, alarm, and trend from your Building Automation System (BAS)
- UL listed
- Blue Ridge Technologies Lx5 Controller and Lighting Tough Relays (LTR) on a single monolithic Back Plate.
- Selectable (top/ bottom) Low Voltage Compartment
- Relay Interior available in 16, 32, and 48 platform sizes to suit a variety of applications

NEW!



CLRI16-16-00-B



CLRI32-32-00-B



CLRI48-48-00-B



SPECIFICATIONS

Supply Voltage	120 or 277 VAC ±10%
Supply VA	30 VA
Supply Frequency	50/ 60 hz
Secondary Voltage	24 VAC ±10% inherently limited
Relay Type	SPST latching N.O. with manual override, pulse driven
Short Circuit Current Rating	
SCCR	20,000 A at 277 VAC
Relay Life Cycles	300,000
Contactor Ballast	20 A @ 277 VAC 20 A @ 347 VAC
Contactor Tungsten	20 A @ 120 VAC
Resistive Load	20 A @ 277 VAC 20 A @ 347 VAC
Analog Inputs	6; 0-5 VAC light level sensor
Digital Switch Inputs	24 two wire or 12 three wire
Relay Terminals	Screw terminal with box clamp
Wire Size	
Power	18 AWG min solid or stranded
Input	18 AWG solid or stranded, non twisted, unshielded
Relay	14-10 AWG or single AWG (solid or stranded Cu only)

Network	Max length 4000 ft
Communication Wire	Belden 8760 or equal
Communication Protocol	BACnet MSTP 9600, 19200, 38400, 76800 N2 9600
Operating Temperature	32° to 125°F (0° to 50°C)
Operating Humidity	20% to 95% RH, non-condensing
Dimensions	
16 Relay	14.25"H x 15.56"W x 3.38"D (36.2 x 39.5 x 86 cm)
32 Relay	23.13"H x 15.56"W x 3.38"D (58.8 x 39.5 x 86 cm)
48 Relay	31.88"H x 15.56"W x 3.38"D (81.0 x 39.5 x 86 cm)
Approvals	UL Listed File E133813
Warranty	2 years

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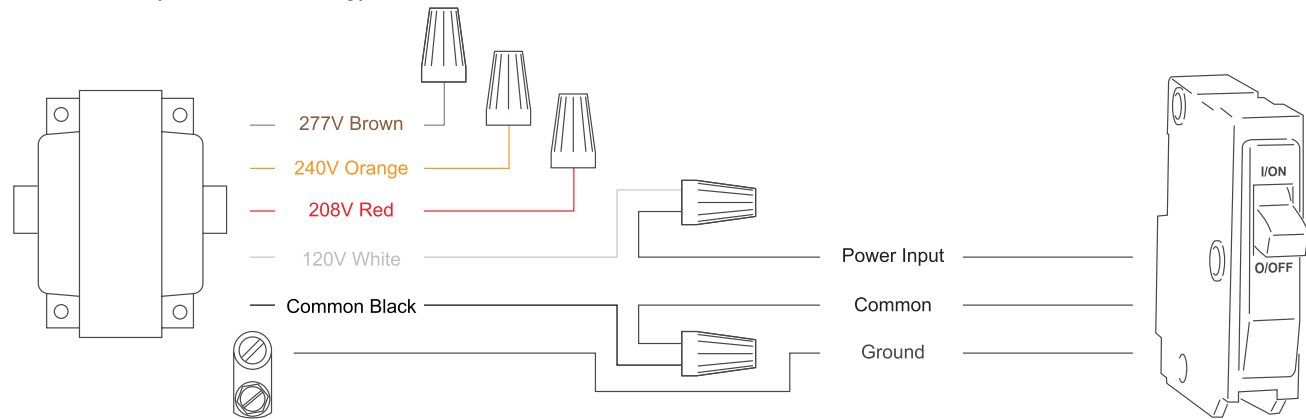
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WIRING

Line Voltage Connections

Control Power (Transformer Primary)



Lighting Tough Relay Power (Input and Output)



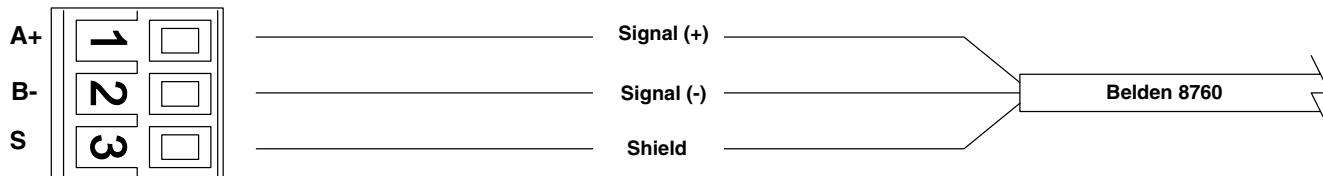


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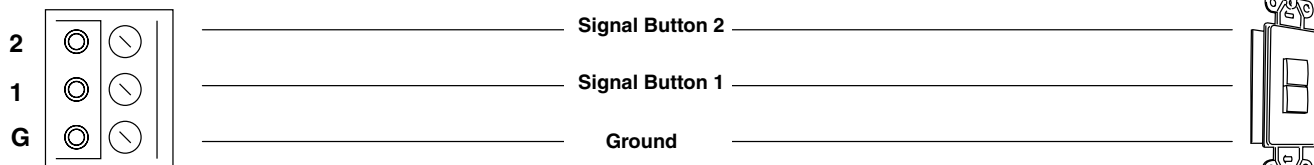
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LOW VOLTAGE CONNECTIONS

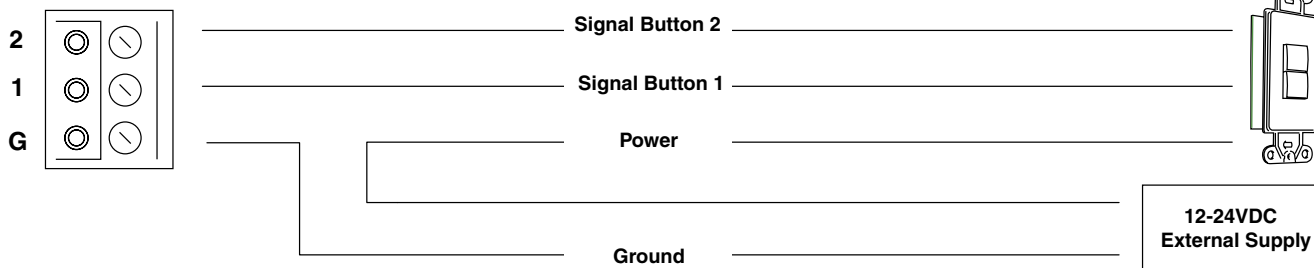
BACnet MSTP / N2 Network (Input)



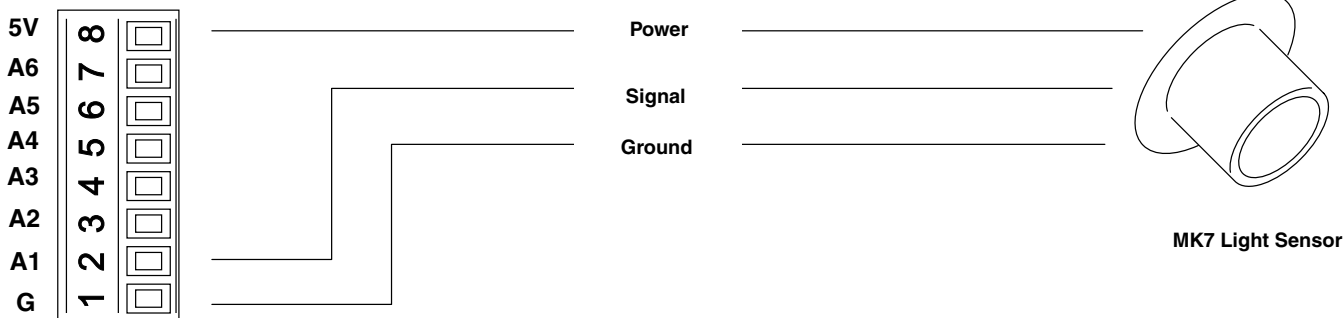
Switch Input (Dry Contact: Low Voltage Switch)



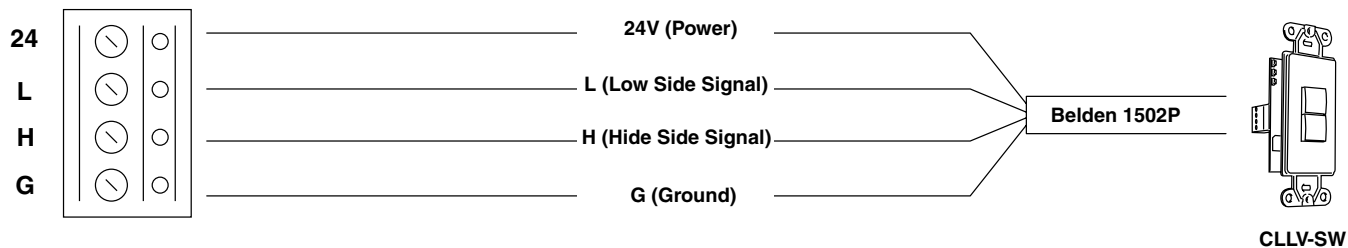
Switch Input (Externally Powered: Low Voltage Switch) (On-board jumpers must be set)



Analog Input (5V Light Level Sensor)



Digital Network (DDN Switches)



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RETROFIT LIGHTING CONTROL INTERIOR WITH BACNET® AND METASYS N2® CL SERIES RETROFIT INTERIOR

APPLICATION

The **CL Series** retrofit interior offers an economical alternative to replacing the entire relay panel. By design you retain a substantial portion of the original investment, such as the enclosure, conduit, and wiring. The existing proprietary controls and outdated relay technology are removed. The new UL Listed Retrofit Interior incorporates all the features of a new Relay Panel including an integratable Controller and high performance relays on a single monolithic Back Plate. To accommodate the existing panel layout, the low voltage compartment may be factory mounted at the interior's top or bottom. Additional Input Expansion Cards should be used to expand input capacity.

These interiors are compatible with-

Leviton:	Controlkeeper (16, 32 panel)
Lithonia Lightng :	Switchkeeper/ WatchKepper/ Control Keeper (16, 32 panel)
Lutron:	XPS (16,32, 48 panel)
PCI Lighting Control:	Switchkeeper/ WatchKepper/ Control Keeper (16, 32 panel)
Siemens:	LCP2000 (16, 32 panel)
Trane:	Tracer LCP (16, 32 panel)

ORDERING INFORMATION

<u>Model</u>	<u>Relay Capacity</u>	<u>Factory Installed Relays</u>	<u>Low Voltage Mounting</u>
CLRI16-08-00-B	16	08	Bottom
CLRI16-08-00-T	16	08	Top
CLRI16-16-00-B	16	16	Bottom
CLRI16-16-00-T	16	16	Top
CLRI32-16-00-B	32	16	Bottom
CLRI32-16-00-T	32	16	Top
CLRI32-24-00-B	32	24	Bottom
CLRI32-24-00-T	32	24	Top
CLRI32-32-00-B	32	32	Bottom
CLRI32-32-00-T	32	32	Top
CLRI48-24-00-B	48	24	Bottom
CLRI48-24-00-T	48	24	Top
CLRI48-32-00-B	48	32	Bottom
CLRI48-32-00-T	48	32	Top
CLRI48-40-00-B	48	40	Bottom
CLRI48-40-00-T	48	40	Top
CLRI48-48-00-B	48	48	Bottom
CLRI48-48-00-T	48	48	Top

ACCESSORIES

CLLTR-1
CLLV-SW1
CLRVD
CLUSB-TK
MK7-B

CL series Lighting Relay (LTR), 1 Replacement LTR for field installation
One button, low voltage momentary switch without wall plate
CL series Relay Voltage Divider
Configuration software for CL Lighting Panel
Light Sensor Series

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