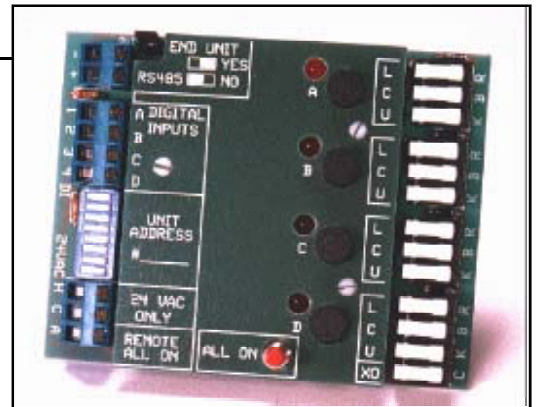


PHOTON-4

RS485 Lighting Contactor Interface

FEATURES

- Control 255 PHOTON-4's (1020 lighting points) over an RS485 network
- Supports G.E.[®] RR7 latching contactor types from momentary (Version 1) or maintained (Version 2) Inputs or Schlage Electronics[®] or TOUCH-PLATE[®] 3000-PL relay types (Version 3)
- 4 Remote Override Inputs
- 4 On-board Override Switches
- Input for remote emergency "ALL ON" plus on-board "ALL ON" switch
- Status LED for each contactor
- Programmable timed override and flash available



APPLICATIONS

- Lighting circuit control
- Perimeter strip heat lockout
- Economical control of scattered electrical loads
- Replacement of existing lighting panel control package

PRODUCT DESCRIPTION

The PHOTON-4 interface is capable of controlling four (4) GE[®] RR7 or RR9 relay types or Schlage Electronics[®] or TOUCH-PLATE[®] 3000-PL relay type lighting contactors. It provides the necessary latch and unlatch pulses required by these contactors.

Up to 255* PHOTON-4's can be controlled and monitored over a single twisted pair of wires from a desktop PC or a building automation system computer. This enables a system of PHOTON-4's to control up to 1020 contactors. Each PHOTON-4 has an 8-position DIP switch to set its individual address. ACT protocol is used, and is available upon request.

Multiple PHOTON-4's can be grouped in enclosures next to breaker panels, or mounted individually for remote circuit control. Each PHOTON-4 is supplied with snap track for mounting and requires 24 VAC for power.

Local Overrides

The PHOTON-4 has momentary local override push buttons for each of the 4 contactors. The corresponding contactor is toggled on or off each time the local override button is pressed.

Remote Override (Version 1 & 2 Only)

Each PHOTON-4 has 4 digital inputs for remote override. These require a momentary or maintained contact (specify when ordering). When an override input is made, the PHOTON-4 will turn on the appropriate contactor, and flag the controlling CPU of the override. These digital inputs can also be used for monitoring RR9 pilot contacts or receiving a signal from digital output Current Transducers (CT's). The timed override can be set from 2 to 63 minutes. The lights will flash one minute before the override times out. Override off is not timed.

Special Emergency "ALL ON"

The PHOTON-4 has a local momentary push button switch for emergency "ALL ON", and requires a momentary contact for connection to "REMOTE ALL ON" terminals. This feature bypasses all electronic circuits and directly connects the power transformer to the contactors. This feature is useful in emergency situations where the host computer, or other electronic devices are inoperative.

Contactor Status Indicators

The PHOTON-4 has an LED status indicator for each of the contactors that turns on or off when a latch or unlatch signal is sent to the contactor.

ORDERING INFORMATION

PHOTON-4 Version 1 _____ (for Momentary Digital Input control of G.E. RR7 Relays)
or Version 2 _____ (for Maintained Digital Input control of G.E. RR7 Relays)
or Version 3 _____ (for control of Schlage Electronics® or TOUCH-PLATE® 3000-PL Relays)

SPECIFICATIONS

Electrical Requirements

Power Supply

Supply Voltage	24 VAC +/-10%
Supply Current	150 mA + specific contactor inrush during latch or unlatch pulse. RR7 is 1/2 amp.

Input

Input-Digital	5-24 VDC or VAC (Version 1 & 2 only) Version 3 - Digital inputs are used for contactor status)
Communications	RS485 9600 BAUD, ACT Protocol

Mechanical Requirements

Connections (Power/Signal)

Wire Size	Up to one 14 gauge max.
Terminal Type	Captive screw

Connections (Output to Relay)

Wire Size	Up to one 14 gauge max.
Terminal Type	Lever action clamp (no tools required)

Dimensions

4" X 3.25" X 1.375"

Weight

3.3 oz.

Mounting

4" 6TK Snap Track (Supplied)

Environmental Requirements

Operating Temperature	32 to 150 deg F
Operating Humidity	5 to 95% non-condensing

Specification may change without notice to improve quality or functionality.

If you have a different application or need, please call 1-800-886-2281 and discuss your needs with our Sales Engineers