



# PHOTON4.1

## *RS485 Lighting Contactor Interface*

The PHOTON4.1 interface has 4 outputs capable of controlling G.E. RR7 or RR9 relay types (up to 10 per output), 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 PHOTON4.1s 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 PHOTON4.1s to control a minimum of 1020 contactors. Each PHOTON4.1 has an 8-position DIP switch to set its individual address. Multiple PHOTON4.1s can be grouped in enclosures next to breaker panels, or mounted individually for remote circuit control. Optional ribbon cable(s) can be used to provide power and signal connections between PHOTON4.1s.

The PHOTON4.1 is covered by ACI's Two (2) Year Limited Warranty, which is located in the front of ACI's Sensors & Transmitters catalog or can be found on ACI's web site, which is: [www.workaci.com](http://www.workaci.com).





**SPECIFICATIONS**

<b>Power Supply</b>	
Supply Voltage	24 VAC +/-10%
Supply Current	150 mA + specific contactor inrush during latch or unlatch pulse. GE® RR7 is 1/2 Amp
<b>Input</b>	
Input-Digital	5-24 VDC or VAC (Standard and Version 2 only)    Version 3 Digital inputs are used for contactor status
Input Impedance	100KΩ
Communications	RS485, ACI Protocol
Baud Rate/Data Bits	9600 BAUD/8
Parity/Stop Bits	None/1
<b>Auxiliary Power Supply</b>	
Voltage	12 VDC
Current	150 mA maximum
<b>Contractor Output</b>	
Voltage	24 volts half wave (to contactor)
Maximum Contractors/Output	10 GE® RR7 or RR9. (Contact factory for more than 10 G.E.® RR7 or RR9 contactors per output)
Operating Temp/RH	32 to 120°F (0 to 48.9°C)/5 to 95% non condensing

**ORDERING**

Please select one PHOTON4.1 Version (A).

**A** PHOTON4.1 Version

- VERSION#1** (Standard) (For momentary digital control of G.E.® RR7 & RR9's) (Program #0140Y0F)
- VERSION#2** (For maintained digital control of G.E.® RR7 & RR9's) (Program #0374Y0E)
- VERSION#3** (For control of Schlage Electronics® or TOUCH-PLATE® 3000-PL Relays)
- VERSION#4** (For digital 1:1 control) (Program #0374Y0D)

**BUILD PART NUMBER**

After completing (A) from the above table, fill in the Part Number Table below. The "Sensor Series" is provided. An example part number is offered.

**PHOTON4.1**

SENSOR SERIES	A
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EXAMPLE: PHOTON4.1 VERSION#2