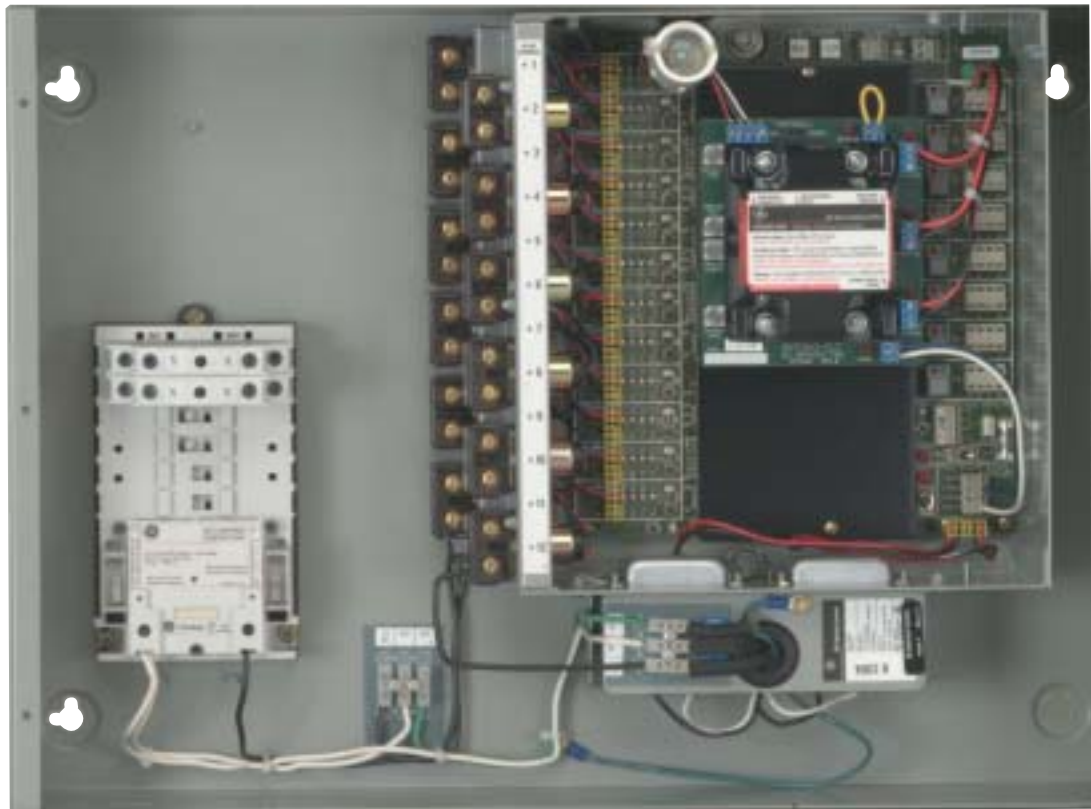




GE Total Lighting Control

*12-Relay Panel with Integrated
Outdoor Photocell Controller and 2-Pole Contactor
Catalog Number RPS12OUTx*



DESCRIPTION

The RPS12OUTx is a complete outdoor lighting control panel which uses a 12-relay ProSys interior. It includes:

- 1. A factory-installed and pre-wired outdoor photocell controller (RPCON3OUT)*
- 2. A photocell head (RPSEN3OUT) to be installed and connected at the job site*
- 3. An electrically-held lighting contactor for controlling 2-pole parking that can be specified as 4 to 12 pole*

The ProSys interior provides a simple way to group lighting circuits by function for both manual and automatic control. Used with the RPCON3OUT outdoor photocell controller, lighting circuits for security, parking and signage can be grouped and controlled simply based on available daylight and whether or not the building is occupied.

The RPS12OUTx has eight separate channels. Each channel can control any combination of the 12 relays (lighting circuits). Channel switches within the panel provide built-in override capability.

The RPCON3OUT outdoor photocell controller comes mounted within the interior. The controller's three outputs for security lighting, parking and signage are pre-wired to the first three channels of the relay panel. The remaining channels are available for grouping other circuits.

Before starting, read the following installation instructions. If you have questions, call GE Total Lighting Control Service at:

1-877-584-2685 (LTG-CNTL) in the USA and Canada.

CAUTION: Make sure all power is OFF before wiring. Do not energize wiring until the unit is fully assembled. Conform to all applicable codes.

INSTALLATION

1. Mount Panel

32 to 131°F (0 to 50°C), 10 to 95% relative humidity, stationary applications. The tub should be level, plumb and rigidly installed with hardware sufficient to hold 100 lbs. (48kg). The orientation should be as illustrated below.

2. Wire Line Voltage

Before making any connections to the relays or contactor, make sure that none of the load circuits are shorted or miswired. Wire from the circuit breaker through each relay's SPST output terminals, and from there to the loads. Wire the power supply. Relay #12 is pre-wired to the lighting contactor. Wire 2-phase parking lot circuits through the contactor.

3. Install Photocell Head Outdoors

Mount the RPS12OUT photocell head on the building roof facing toward the northern sky as illustrated on the next page.

4. Wire Low Voltage

(Refer to the illustration on the next page)

Photocell Head

Wire the photocell head to the "PHOTOCELL" input terminals on the RPS12OUT controller.

Override Switches

Wire the override switches to the desired channel inputs on the ProSys board.

5. Verify Photocell Controller Settings

Refer to instructions on controller label for setting footcandle levels for security, parking and signage lighting and for parking egress delay.

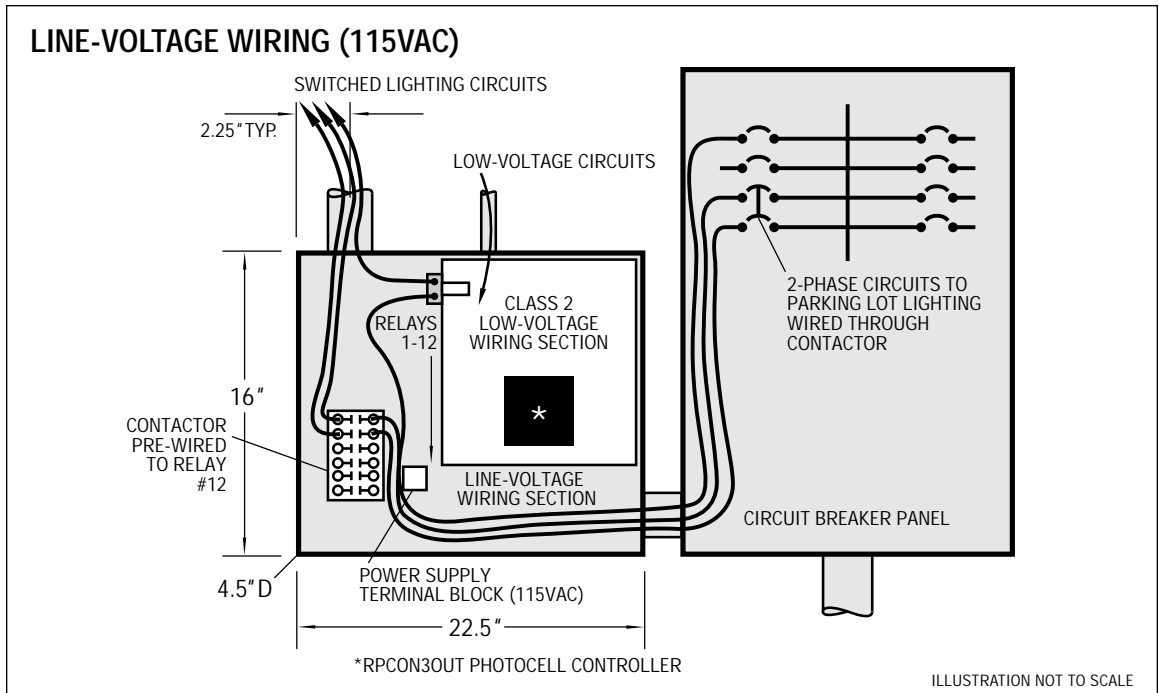
6. Power Up and Test Relays

Apply power to the power supply only. Press the Relay Control Button next to each relay's yellow plug-in termination to toggle it ON/OFF. The relay should "click" and the LED status indicator should change state. Confirm the operation by measuring the line-voltage terminations of each relay (and the contactor, if necessary).

Apply power to the relays (and contactor). Being careful not to touch any line-voltage wiring, toggle each relay ON/OFF again and confirm that each controls the appropriate load.

7. Document Wiring

Record the circuit controlled by each relay on the **Wiring Schedule** located on the back page of these installation instructions. Also indicate which relays are controlled by each channel. Place the Schedule in the plastic envelope and attach it to the inside of the panel cover.



INSTALLATION

LOW-VOLTAGE CONTROL WIRING

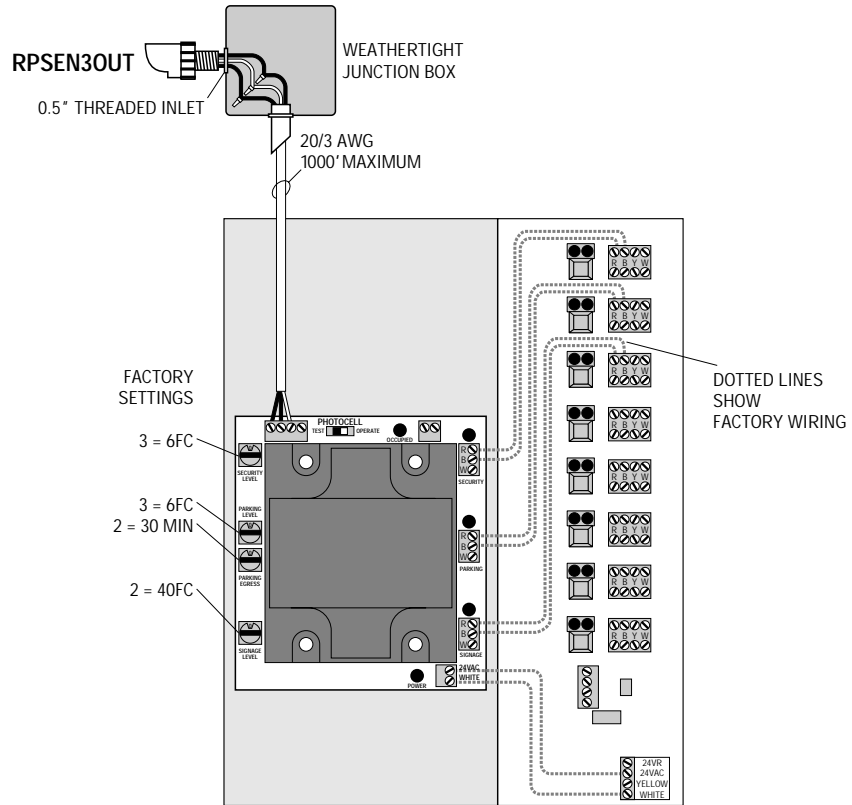


ILLUSTRATION NOT TO SCALE

8. Software Relay Groups to Channels

Following the instructions to the right, software relays to the appropriate channels [suggested scenario]:

Channel A: Security lighting

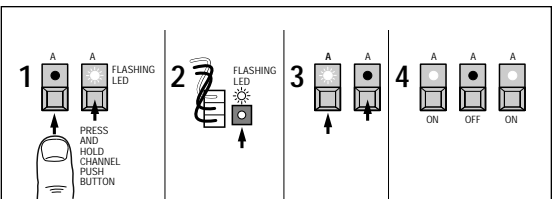
Channel B: Parking lot lighting (Note: Relay #12 controls the contactor)

Channel C: Signage lighting

Others

9. Test Operation

Test photocell responsiveness by sliding the "PHOTOCELL" switch to "TEST" and covering the photocell head. Return to normal operation by sliding the switch to "OPERATE". Test against the sequence of operations to ensure that all controls are operating as intended.



Softwiring a Relay Group to a Channel

- 1 Press and hold the Channel Push Button for several seconds. The channel LED and the LEDs for relays currently controlled by that input will begin to flash.
- 2 Select the relays to be controlled. The LED for each relay "softwired" to the channel input selected will be flashing ON/OFF. Press the associated Relay Control Button to add/delete that relay to/from the group.
- 3 Press the Channel Push Button again. The LEDs will stop flashing and the input switch will now control the relays selected.
- 4 Test. Press the Channel Push Button to toggle the group ON/OFF/ON. The input LED will track the last action. Now, turn OFF each relay in the group using the individual Relay Control Buttons. When the last relay is turned OFF, the channel LED should also go OFF.

Note: Check those relays which are controlled by each channel under that channel letter below.

WIRING SCHEDULE: 12-RELAY PANEL

RELAY # CIRCUIT	SUPPLY	LOAD DESCRIPTION	RELAYS CONTROLLED BY EACH CHANNEL							
			A SECURITY	B PARKING	C SIGNAGE	D	E	F	G	H
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12		LIGHTING CONTACTOR								

