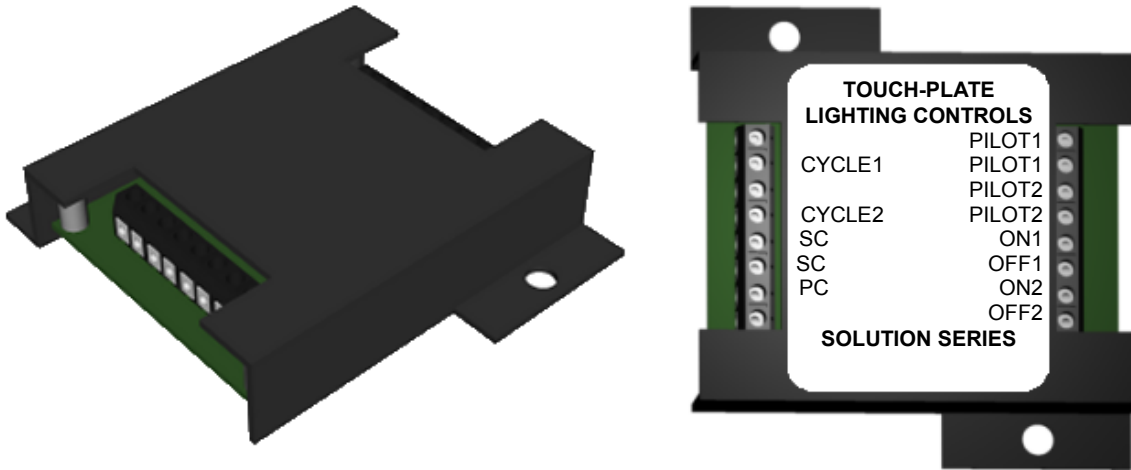


# Touch-Plate® Lighting Controls

## CPS-1050 Cycle to ON/OFF Board



Cycle to ON/OFF is a requirement on many occasions when a single momentary button needs to control a group of relays together. Sometimes it is because there are not enough wires at the switch location to accomplish the desired goal, and the CPS-1050 reduces the number of wires required for Group switching.

Due to the situation where some relays are included in multiple groups, and/or some of the relays within a group have individual override buttons, it is necessary to get all relays in the group to the same state with a button press. When a single switch tries to control a group, it is possible that from another switch location someone has overridden one or more relays in the group to a different state. When someone hits the Cycle input in that condition, some relays would go ON, others would go OFF. The CPS-1050 watches the state of the relays and toggles the switch signals into two separate outputs wired to the ON and OFF terminals of the CPS panel. This guarantees the relay group goes to the desired setting.

### Power

The unit receives power by connecting the SC and PC terminals on the left side of the module to the CPS relay panel's switch common or pilot common. The +5 terminal should never be connected.

### Outputs

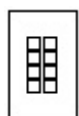
The outputs on the right side of the module are the ON and OFF signal outputs of the module. They should be wired to the ON and OFF inputs of the CPS panel; they may be wired to multiple inputs.

### Inputs

The two input terminals are to be connected to momentary contacts or switches connected to CPS switch common.

### Pilot Feedback

The two PILOT1 terminals are used to monitor relays in the first group. PILOT2 terminals are used to monitor relays in the second group. At least one relay from each group must be connected. Connect one of the blue pilot terminals from the CPS to the terminals on the CPS-1050. **NOTE:** only one pilot connection is allowed at each terminal, do not group pilot wires.



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