MOUNTING POSITION - The LCR-5 can be mounted in any position. The LCR-5’s epoxy-potted design allows nearly any mounting configuration required. It is intended to be mounted inside a meter enclosure where it will not be directly exposed to the weather. The 2” x 1.5” x 1” form factor of the LCR-5 makes it ideal for mounting inside a tight meter enclosure with a high level of electrical insulation. The LCR-5 should be mounted or positioned such that the bottom side of the LCR-5 is up against and flush with an inside wall of the enclosure that does not get direct sunlight. This will assist with heat dissipation of the solid state switching element for loads approaching the 1 amp rating. Two mounting tabs are provided for secure mounting.

POWER INPUT - The LCR-5 is powered from the load wires and does not require any separate power supply. Connect the LCR-5 as shown in Figure 2 wiring diagram.

METER CONNECTIONS (INPUT) - The LCR-5 has a dry-contact input meaning that the control input wires simply need to be connected or disconnected to each other to switch the load on and off. Connect the LCR-5’s control input leads (YEL) to the meter’s dry contact output terminals. There is no polarity. Either yellow wire may be connected to either terminal of the meter’s dry-contact output switch. This switch MUST be isolated. The nominal control voltage is suitable for meter dry-contact outputs rated for 120VAC.

LOAD CONNECTIONS (OUTPUT) - The relay’s output is a solid state TRIAC type switch between the BLK and RED #18AWG wires. This relay contact is inserted in series with one side of the load to be controlled as shown in Figure 2. The relay output is rated up to 1 Amp at any AC voltage of 240 volts. The contact is normally-open (NO) and is intended to be inserted into a control circuit or load circuit up to 1 Amp.

OPERATION - Upon the closure between the yellow wires, the power relay's contacts will close. When continuity between the yellow wires is broken, the relay's contacts will open.
FIGURE 2: LCR-5 Wiring Diagram

Meter’s Switching device

SPST Switch

YEL

Control Input

Load Control Relay

Load Output

BLK

RED

Load to be Controlled

Load 1A @ 240VAC MAX

240VAC LOAD VOLTAGE

Power Relay

240VAC COIL

Load to be Controlled

Load 1A @ 240VAC MAX

240VAC LOAD VOLTAGE

CONTROL VOLTAGE

LCR-5 Load Control Relay

Load Voltage

Control Voltage

BLK

Load

1A @ 240VAC MAX

240VAC LOAD VOLTAGE

Power Relay

240VAC COIL

Load to be Controlled

Load 1A @ 240VAC MAX

240VAC LOAD VOLTAGE

CONTROL VOLTAGE

LCR-5 Load Control Relay

Load Voltage

Control Voltage

BLK

Load

1A @ 240VAC MAX

240VAC LOAD VOLTAGE

Power Relay

240VAC COIL

Load to be Controlled

Load 1A @ 240VAC MAX

240VAC LOAD VOLTAGE

CONTROL VOLTAGE

LCR-5 Load Control Relay

Load Voltage

Control Voltage

BLK

Load

1A @ 240VAC MAX

240VAC LOAD VOLTAGE

Power Relay

240VAC COIL

Load to be Controlled

Load 1A @ 240VAC MAX

240VAC LOAD VOLTAGE

CONTROL VOLTAGE

LCR-5 Load Control Relay

Load Voltage

Control Voltage

BLK

Load

1A @ 240VAC MAX

240VAC LOAD VOLTAGE

Power Relay

240VAC COIL

Load to be Controlled

Load 1A @ 240VAC MAX

240VAC LOAD VOLTAGE

CONTROL VOLTAGE

LCR-5 Load Control Relay

Load Voltage

Control Voltage

BLK

Load

1A @ 240VAC MAX

240VAC LOAD VOLTAGE

Power Relay

240VAC COIL

Load to be Controlled

Load 1A @ 240VAC MAX

240VAC LOAD VOLTAGE

CONTROL VOLTAGE