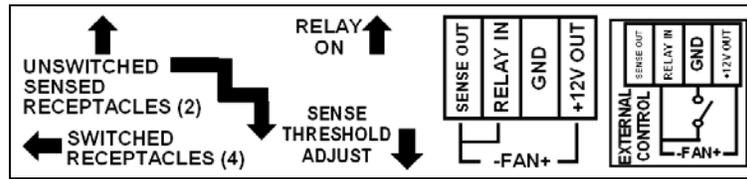


# SETUP INSTRUCTIONS FOR CEILING BOX SMART MODULE



## OPERATION:

Your CB Ceiling Box model is equipped with load sensing circuitry to allow the four switched AC receptacles to automatically turn on and off with the projector. The current drawn by any loads plugged in to the two “UNSWITCHED, SENSED RECEPTACLES” is monitored. When the current exceeds the sense threshold indicating that the projector has turned on, the four “SWITCHED RECEPTACLES” and cooling fan are turned on. When the projector is turned back off, the decrease in current draw tells the sense circuitry to turn off the four switched receptacles and cooling fan. The circuit can reliably sense a change of 50 watts. Hysteresis is built in to avoid false triggering.

## Setting the Current Sense Threshold:

1. Connect the projector or other load to be sensed to one of the two “UNSWITCHED, SENSED” receptacles provided.
2. Ensure the projector is in the off mode.
3. Slowly turn the “SENSE THRESHOLD ADJUST” pot counter-clockwise until the “RELAY ON” LED illuminates. Note the pot position.
4. Turn the projector to the on or active mode.
5. Slowly turn the “SENSE THRESHOLD ADJUST” pot clockwise until the “RELAY ON” LED extinguishes. Note the position of the pot.
6. Set the pot to the middle of the settings noted in steps 3 and 5.
7. Test the setting by turning the projector on and off and noting that the “RELAY ON” LED follows the projector state. There may be a delay of a few seconds when turning the projector off. This is a normal condition.

## External control option:

If desired, the switched receptacles and fan can be controlled from an external dry contact closure. Simply move the Fan (-) wire from the “SENSE OUT” terminal to the “RELAY IN” terminal and connect the dry contact from “RELAY IN” to “GND”. When the “RELAY IN” is connected to “GND” the switched receptacles and fan will turn on. The dry contact must be rated at 12VDC @ 0.25 Amps or higher. Refer to label above marked "External Control".

## For Full Time Operation of receptacles and fan:

Move the Fan (-) wire from the “SENSE OUT” terminal to the “RELAY IN” terminal and connect a jumper from “RELAY IN” to “GND”. When the “RELAY IN” is connected to “GND” the switched receptacles and fan will turn on.



205 Westwood Ave, Long Branch, NJ 07740  
Phone: 866-94 BOARDS (26273) / (732)-222-1511  
Fax: (732)-222-7088 | E-mail: sales@touchboards.com

