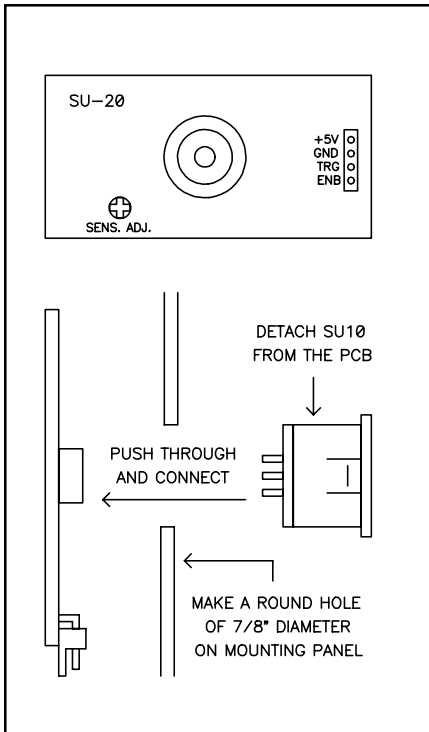


SU20 Motion Sensor



- ❑ Passive infrared motion sensor
- ❑ Consists of sensor element (SU10) and amplifier board
- ❑ Adjustable detection range from 2 to 10 feet
- ❑ Spring action panel mount
- ❑ 0.1" spacing pin header
 - +5V: +5V ~ +15V DC input
 - GND: ground
 - TRG: sensor output
 - ENB: enable input

The SU20 is a passive infrared motion sensor which detects the change of heat volume from a moving human body. Unlike photo sensitive motion detectors, the SU20 works well under any lighting conditions.

The sensor output is active low. When motion is not detected, the TRG output is isolated from the outside through a diode. When motion is detected, the TRG output switches to the ground level. The TRG output is disabled if the ENB input is at the ground level. To enable the sensor at all times, leave the ENB input unconnected. Refer to the Interface Circuitry diagram below.

The SU20 comes with a 4-conductor wire harness which connects directly to some of our sound boards. For other boards that don't have a dedicated 4-pin sensor connector, the wiring scheme is as the following:

1. Connect the yellow wire to a DC voltage ranging from +5V to +15V.
2. Connect the orange wire to ground.
3. Connect the red wire to a trigger input on the sound board.
4. Connect the brown wire to a signal source which disables the sensor. Leave the brown wire unconnected to enable the sensor at all times.

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