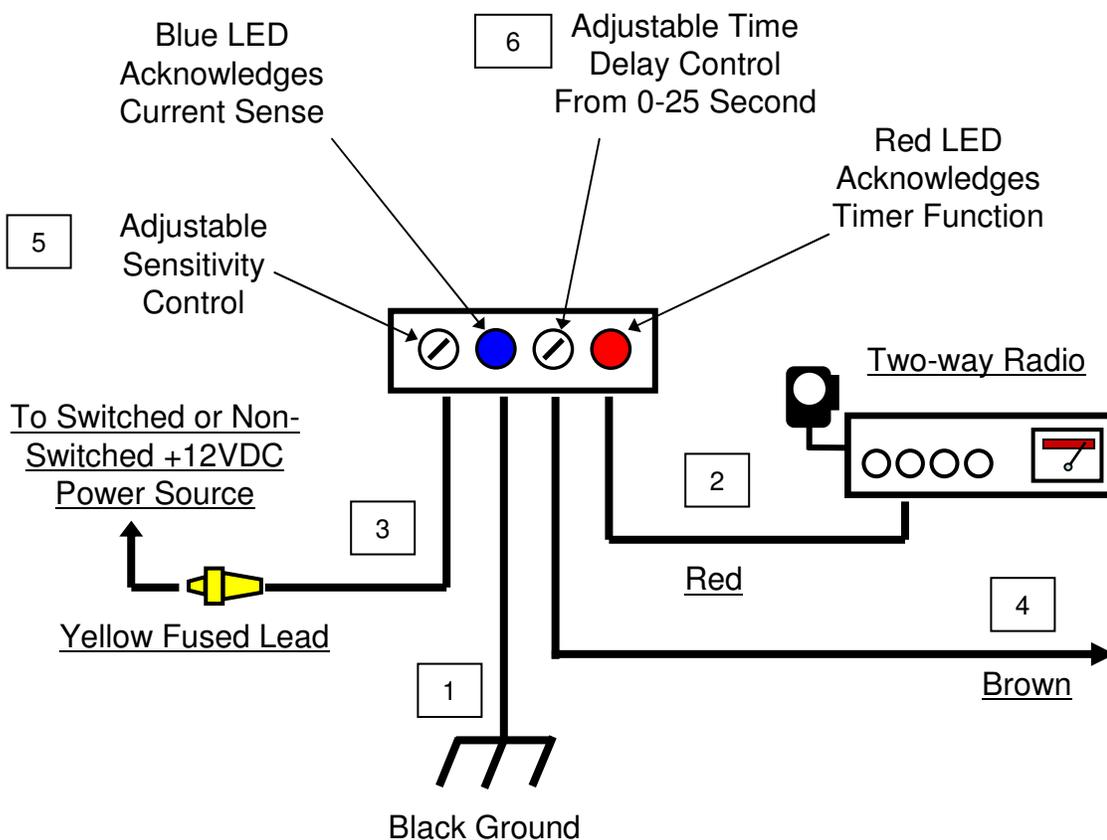


Transmit Detection Switch, P/N: TDS15A

The TDS15A is an inline current sensing device that installs in between a 2-way radio and its power source.

How It Works: When the push-to-talk (PTT) key is pressed to transmit, a current change is detected by the **TDS15A**. The on-board detection circuit then sinks the Brown output wire to ground and simultaneously triggers the latch timer and lights the Red status LED to acknowledge the activated function. The Brown wire remains latched from 0 to 25 seconds after the PTT key has been released. Actual latched time is determined as needed during the installation of the **TDS15A**. The Brown wire can be used to activate a number of functions that the user wants such as, muting another radio or driving an external speaker relay.



TDS15A Wiring and Set-Up Instructions

- (1) **Black** wire connects to negative chassis ground. Attach to a clean metal surface with screw or bolt.
- (2) **Red** wire connects to the two way radio's power input lead only. **DO NOT** connect the two way radio to any other power source. Doing so will prevent the **TDS15A** from detecting any line current changes during transmit.
- (3) **Yellow** (15 Amp Fused) wire connects to a positive (+)12 Volt DC, switched or non switched, power source.
- (4) **Brown** output wire sinks to ground when the **TDS15A** detects a change in current as set by the **Sensitivity Control** for the current detection circuit, see #5 in the above diagram. The timing function of this output is user defined after all connections have been completed, see (6) below.

Installation Note: This output is capable of handling a maximum load of 1 Amp and can drive most automotive relays and also can be connected to many aftermarket car stereos that have external muting wires. See the installation instructions for your stereo to verify this connection.

- (5) **Sensitivity Adjustment for the Current Detection Circuit:** To set the current detection circuit you must first fully connect the **TDS15A** as described above to your 2-way radio. Now turn-on the 2-way radio and complete the following:

Installation Note: Located on the front panel of the **TDS15A** to the left of the Blue LED is an access hole, see #5 in the above diagram. Just inside this opening is the **Sensitivity Control** for the current detection circuit. Turning the control COUNTER-CLOCKWISE will make the current detection circuit MORE sensitive with a CLOCKWISE rotation being LESS sensitive.

WITHOUT pressing the microphone's PTT key insert a small, flat-blade screw driver into the **Sensitivity Control**. Turn the control fully COUNTER-CLOCKWISE. The Blue and Red LEDs will illuminate and the Brown output wire will sink to ground.

Now slowly turn the control CLOCKWISE until the Blue LED just goes out, then stop. This adjustment only needs to be done once during the installation. It would only need to be reset if a new 2-way radio is installed.

- (6) **Adjusting the Time Delay Control:** After completing the setting for the current detection circuit, installation step #5 above, you need to set the **Time Delay Circuit** for the Brown Output Wire. This circuit will latch the Brown Output Wire on for a period of time that best suits the user from 0 to 25 seconds. While the Brown Output Wire is latched on, the Red LED will be illuminated.

Located on the front panel of the **TDS15A** to the left of the Red LED is an access hole, see #6 in the above diagram. Just inside this opening is the adjustable **Time Delay Control** for the Brown Output Wire's timing circuit. Turning the control fully COUNTER-CLOCKWISE will yield a 0 second time delay. This means that when the PTT key is released the Brown Output Wire and the Red LED will turn-OFF immediately with no delay. To add the desired off delay time turn the **Time Delay Control** CLOCKWISE in small increments and retest by pressing the PTT key. This setting can be reset as desired.

