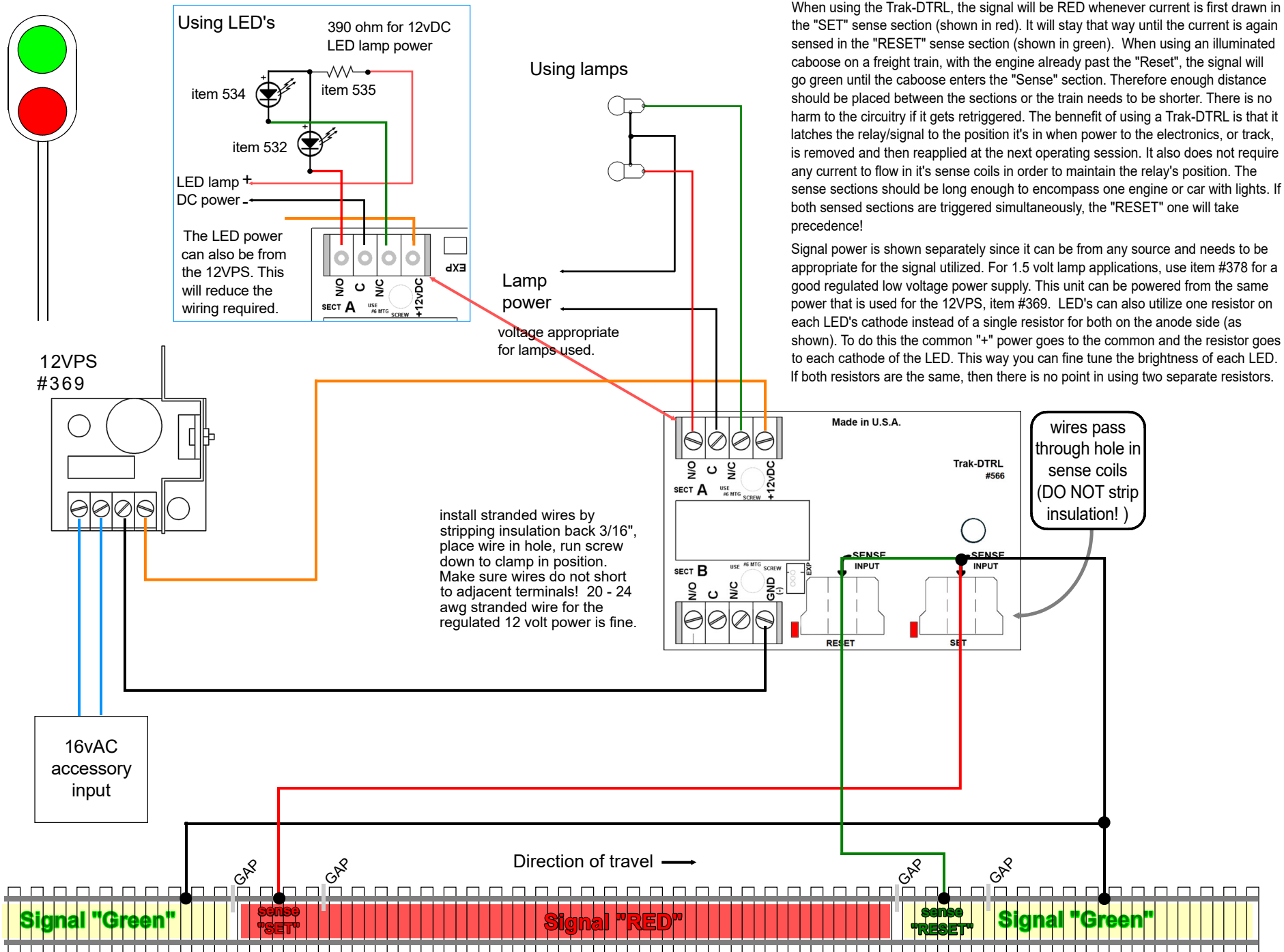


Two Aspect Signal operation using a Trak-DTRL

Simplistic Red / Green signal operation can be accomplished with one Trak-DTRL. Multiple signals requires 1 per block/signal..

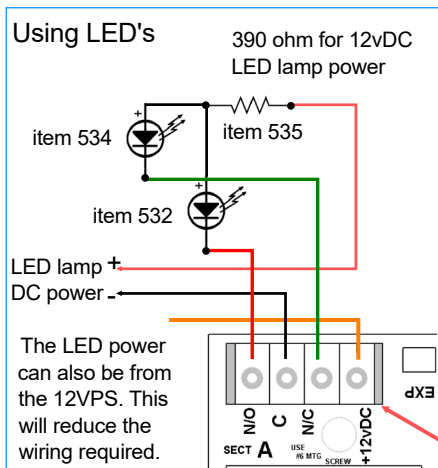
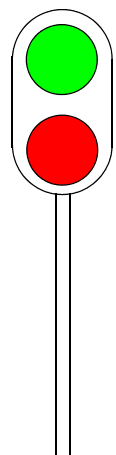
When using the Trak-DTRL, the signal will be RED whenever current is first drawn in the "SET" sense section (shown in red). It will stay that way until the current is again sensed in the "RESET" sense section (shown in green). When using an illuminated caboose on a freight train, with the engine already past the "Reset", the signal will go green until the caboose enters the "Sense" section. Therefore enough distance should be placed between the sections or the train needs to be shorter. There is no harm to the circuitry if it gets retriggered. The bennefit of using a Trak-DTRL is that it latches the relay/signal to the position it's in when power to the electronics, or track, is removed and then reapplied at the next operating session. It also does not require any current to flow in it's sense coils in order to maintain the relay's position. The sense sections should be long enough to encompass one engine or car with lights. If both sensed sections are triggered simultaneously, the "RESET" one will take precedence!

Signal power is shown separately since it can be from any source and needs to be appropriate for the signal utilized. For 1.5 volt lamp applications, use item #378 for a good regulated low voltage power supply. This unit can be powered from the same power that is used for the 12VPS, item #369. LED's can also utilize one resistor on each LED's cathode instead of a single resistor for both on the anode side (as shown). To do this the common "+" power goes to the common and the resistor goes to each cathode of the LED. This way you can fine tune the brightness of each LED. If both resistors are the same, then there is no point in using two separate resistors.

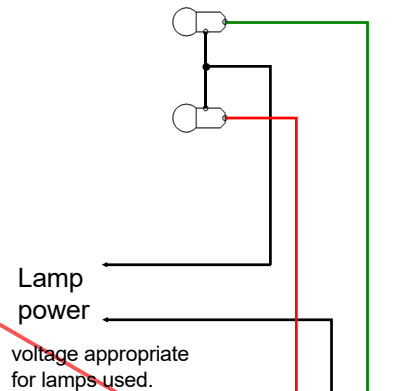


GAP - cut rail leaving an air gap or use plastic insulators. For 3 rail operators: The upper rail would represent the center rail. The lower rail is the outside rails.

Two Aspect Signal operation



Using lamps



Simplistic Red / Green signal operation can be accomplished with one Trak-DT. For multiple signals, see our Wiring Guide.

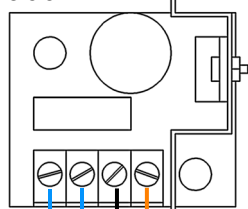
When using the Trak-DT, the signal will be RED whenever current is being drawn in the "sense section" (shown in red). When using an illuminated caboose on a freight train, the engine and caboose should encompass this section of track which is known as a "block". You can also elect to utilize the Trak-DTT and adjust the time the signal is to remain RED after current has ceased to flow in the sensor ("sense section").

Signal power is shown separately since it can be from any source and needs to be appropriate for the signal utilized.

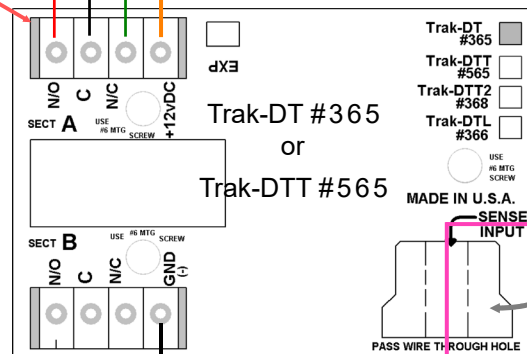
For 1.5 volt lamp applications, use item #378 for a good regulated low voltage power supply. This unit can be powered from the same power that is used for the 12VPS, item #369.

LED's can also utilize one resistor on each LED's cathode instead of a single resistor for both on the anode side (as shown). To do this the common "+" power goes to the common and the resistor goes to each cathode of the LED. This way you can fine tune the brightness of each LED. If both resistors are the same, then there is no point in using two separate resistors.

12VPS
#369

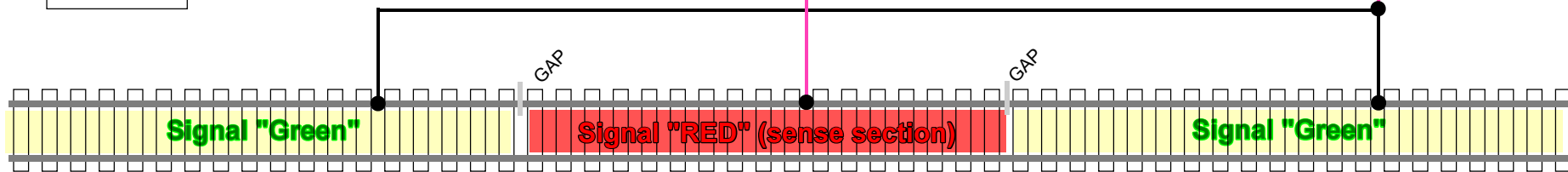


install stranded wires by stripping insulation back 3/16", place wire in hole, run screw down to clamp in position. Make sure wires do not short to adjacent terminals! 20 - 24 awg stranded wire for the regulated 12 volt power is fine.



wires pass through hole in sense coil (DO NOT strip insulation!)

16vAC
accessory
input



GAP - cut rail leaving an air gap or use plastic insulators. For 3 rail operators: The upper rail would represent the center rail. The lower rail is the outside rails.