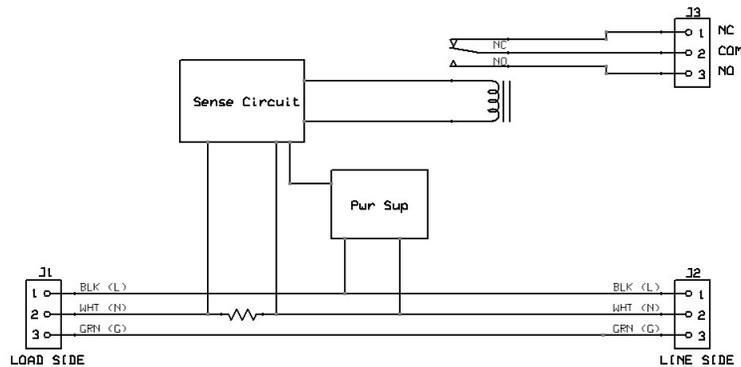


SPECIFICATIONS:

AC input: NEMA 5-15P Plug, standard 120vac with ground.
AC output: NEMA 5-15R Receptacle, standard 120vac with ground.
Monitoring capacity: 1800 watts or 15amps @ 120vac.
Detection threshold: 10 watts, non-reactive.
Detection burden: Negligible; 1.2 milli-ohm sense resistor.
Output: Isolated relay contacts, normally open, common, normally closed. Contacts rated for .5amp @ 120vac.
Output to ac circuit isolation: 1,500vac.
Power consumption: Approx. 1 watt from 120vac line.
Indicator: LED indicates when detection threshold is exceeded.
Mounting: Two #6 screws or free standing



PowerState Tail

PN 80155, US version

Detects the power state (on/off) of any 120vac appliance.

- Detects when a 120vac appliance's power consumption exceeds 10 watts (non-reactive) up to 1800 watts maximum.
- Easily inserts between the wall outlet and any 120vac appliance.
- Output is isolated relay contacts (NC-COM-NO).
- 1,500vac isolation between powered appliance and relay contacts.
- No separate power supply needed. Powered from the ac line.
- No exposed 120vac voltages and no dangerous 120vac wiring required. Can be installed by non-technical users.
- Plugs into standard 120vac 3-prong household outlets, power strips, and extension cords. Easily inserts between power source and corded electrical devices.
- Eliminates the exposure of hazardous voltages in classrooms, in laboratories, and on industrial and DIY development workbenches.
- Connects directly to any microcontroller input pin with pull-up resistor. Ideal for use with battery powered controllers.
- LED indicator shows when detection threshold exceeded.
- Units are "stackable" and easily mount with two screws.
- Monitored devices may be 3-prong or 2-prong appliances or lights.
- Indoor use only.

Hookup Instructions:

1. Connect the PowerState Tail to the power outlet.
2. Connect the 120vac appliance to the receptacle of the PowerState Tail.
3. Turn the appliance on. The LED on the PowerState Tail will go on if the power draw threshold is exceeded.
4. For the output, determine the contacts you want to use and connect signal wires to the appropriate terminals on the terminal block. When the power load is less than the threshold, terminal 2 (COM) and terminal 1 (NC) are closed. When the power load is greater than the threshold, terminal 2 (COM) and terminal 3 (NO) are closed.
5. Use a small screwdriver to access the screws from the top of the PowerState Tail. If necessary, turn the screws CCW to open the

For technical support, please contact us at support@powerswitchtail.com.
For more product information, please visit <http://www.powerswitchtail.com>.

Other detection thresholds are available by special order. Please contact us at sales@powerswitchtail.com with your requirements.

Our liability is limited to the purchase price of this product only. By using this product you agree that PowerSwitchTail.com, LLC can not be held liable for any damages or injuries resulting from use or repairs.

terminal contacts. Strip ¼-inch of insulation from the signal wires and insert into the terminal block contacts through the holes on the side of the PowerState Tail. Tighten the screws and verify the contacts firmly grip the signal wires. Any size wire #16 AWG or smaller may be used. (Standard CAT3/5 #26 AWG twisted pair wire works well.)

6. Output can be connected to a microcontroller input pin through a pull-up resistor. Output can also be connected to a power source to switch power to external devices. The output relay contacts are rated for .5amp @ 120vac.

NOTE: Highly reactive loads may cause false detection. The relay and LED may flicker when the monitored load is close to the detection threshold. Contact us if special detection thresholds are required.

The detection threshold is embedded in the firmware and not field adjustable or programmable. We can provide custom thresholds down to 5 watts. Please contact us with your special needs.