

# PLRC Module (Pulse Latching Relay Controller)

The PLRC is an electric switch (no mechanical contacts to wear out) that will activate and deactivate its output based on a short input trigger pulse. For ease of installation, the trigger pulse can be either a 12v pulse or a grounding pulse, pulse time must at least 0.1 seconds long. Longer or shorter pulse times are available upon request. A dead time of 0.1 seconds is provided between triggering pulses to prevent false triggering, during this time additional pulses will be ignored until 0.1 seconds after last detected pulse. Longer or shorter dead times are available upon request. The PLRC module's output can ground 2.0A directly or the output can be used to activate a relay to supply loads of any power requirements.

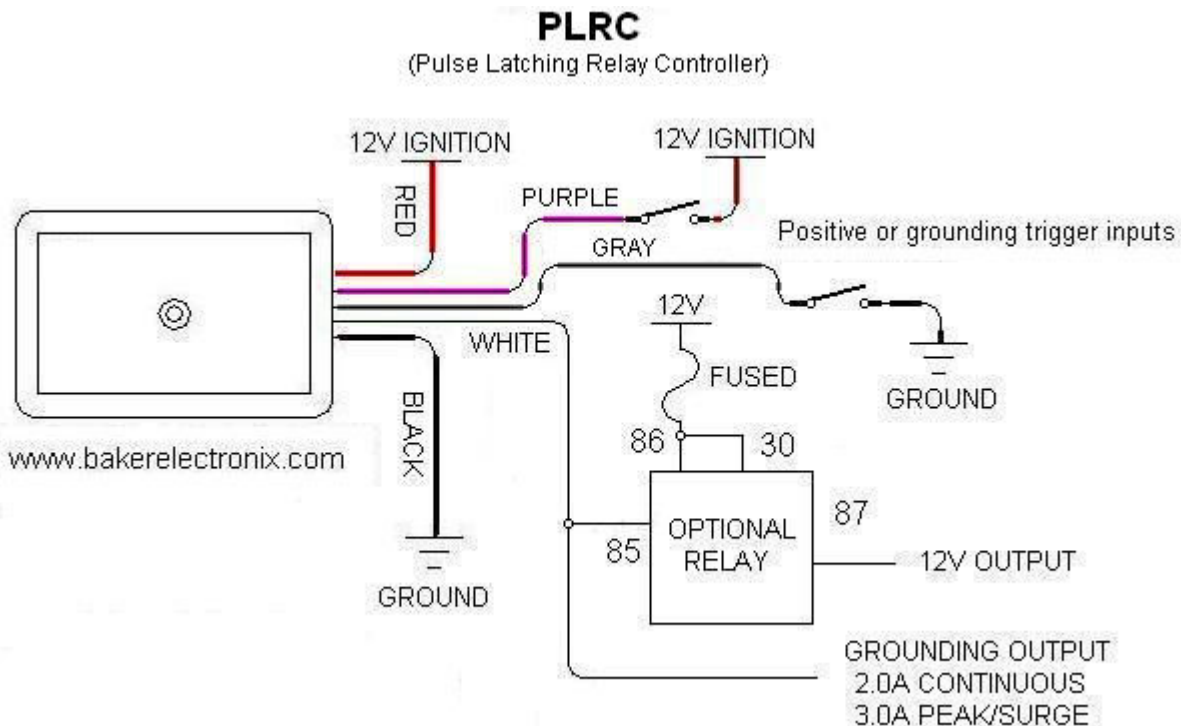
## Features:

- Reverse voltage protection in the event of incorrect power connections
- Short circuit protection on all inputs and outputs to 12V or ground
- Output can sink 2.0A continuous to ground, up to a 3A surge
- Has both Positive and grounding type trigger inputs for ease of installation
- Positive trigger voltage can be any voltage from 5V to 20V
- Waterproof
- Low standby current (5 - 15mA)
- LED Indicator to confirm operation and indicate mode
- Works from 8V to 25V supply voltage
- Light weight (1.1oz)
- Small package (2.12in. by 1.38in. by 0.58in.)
- 12 month warranty from date of purchase against manufacturer defects

## PLRC wires:

- **Red:** 12V from ignition
- **White:** Output - connect to negative (grounding) side of device to turn on
- **Purple:** Positive trigger input, momentarily connect to 12V to trigger the PLRC
- **Gray:** Grounding trigger input, momentarily connect to ground to trigger the PLRC
- **Black:** Ground

We recommend connecting the wires by using insulated crimps or soldering and using appropriate insulation, electrical tape or heat-shrink tubing. The 12V supply should be taken from a fused source. The PLRC should be installed in a location that does not exceed 65°C or 150°F.



**Normal operation of the PLRC:** When the 12V is supplied to the PLRC, the module's LED indicator will briefly flash once every 2 seconds to indicate it has power and its output is currently off. Once a momentary triggering pulse has been detected, on either input, that lasts 0.1 seconds (or longer) the output will change to 'On' and the LED will flash twice every 2 second. The output will stay in this 'On' state until another momentary triggering pulse is detected or until the 12v supplied to the module is turned off.

For warranty service, questions, or comments regarding this or any of our products, please contact Baker Electronix at [bakerelectronix@verizon.net](mailto:bakerelectronix@verizon.net).