

ATD (Adjustable Time Delay)

The ATD is an electric switch (no mechanical contacts to wear out) that will activate its output a short time after one of its inputs has been triggered, this delay from trigger event to output activation is adjustable by a turning a control on the front of the ATD. The customer chooses the minimum and maximum delay times at the time of purchase. The module's output can ground 2.0A directly or the output can be used to activate a relay to operate any required loads.

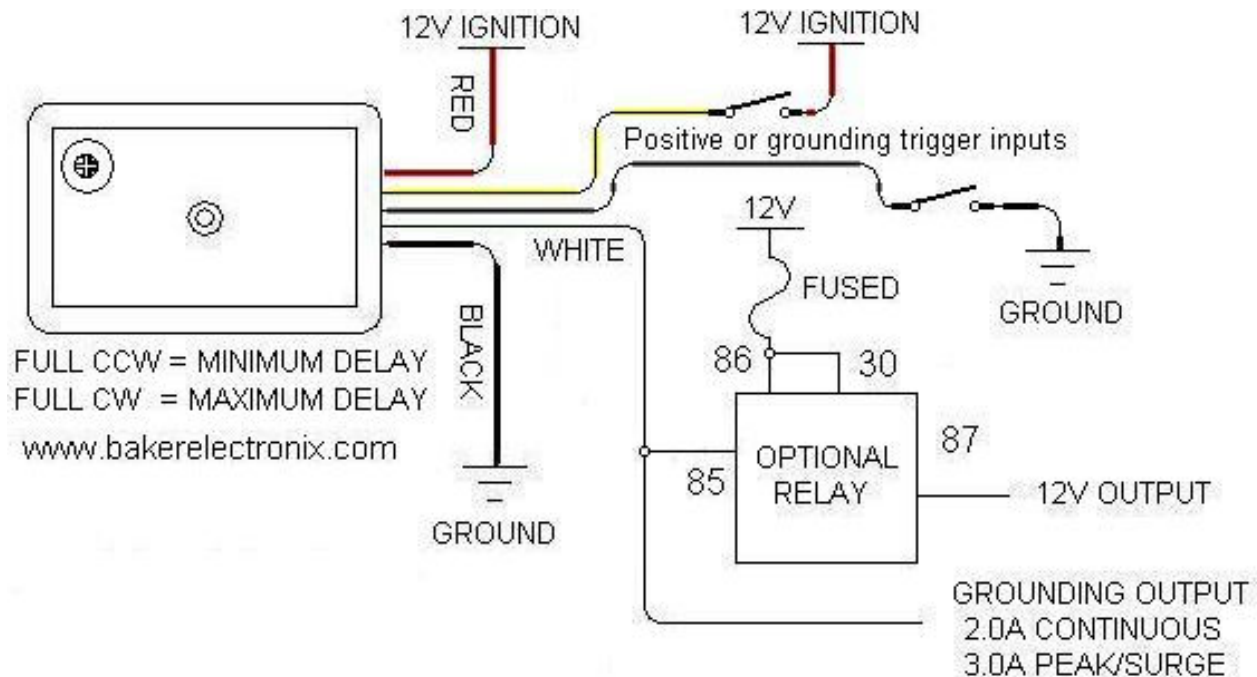
Features:

- 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
- Waterproof
- Low current (5 - 15mA)
- Indicator LED 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

ATD wires:

- **Red:** 12V from ignition
- **White:** Output - connect to negative side of device to turn on
- **Yellow:** Positive (5v-12v) trigger input, connect to trigger the ATD and keep the ATD's output on
- **Gray:** Grounding trigger input, ground to trigger the ATD and keep the ATD's output on
- **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 ATD should be installed in a location that does not exceed 65°C or 150°F.



Normal operation: When the 12V ignition is turned on the ATD LED indicator will briefly flash once every 2 seconds to indicate it has power and is waiting for a trigger event. Once a trigger has been detected, on either input, the LED will light and an internal countdown starts, if at any time during this countdown the trigger input turns off the countdown will stop and the ATD will wait for the next trigger. Once the trigger has been on for the selected amount of delay time the ATD's output will become active (grounding) and stay that way as long as one of the two trigger inputs is still on, when both trigger inputs are off the ATD will deactivate its output and wait for the next trigger. The Delay time is adjustable by means of a turnable adjustment control on the front of the ATD. Turning this control fully CCW (Counter Clock Wise) will set the delay time to minimum, turning the control fully CW will set the maximum delay. The delay control is linear so turning it ½ way will set a delay ½ way between the minimum and maximum delay times.

For warranty service, questions, or comments regarding this or any of our products, please contact Baker Electronix at bakerelectronix@verizon.net.