



EV-7001 Ignition Delay Module (30 min to 8 hrs – Voltage Sense)

General

The EV-7001 Ignition Delay Module provides ignition delay timing for connected electronic accessories through the user supplied Tyco relay (P/N V23132-A2001-**00). The module control the Tyco relay at a preset time after the vehicle's ignition is turned off. There are 7 available time delay settings up to eight hours. A 10 second test setting mode is provided. Red & green LED indicator displays real time timing status. The EV-7001 is sealed against vibration and moisture.

The EV-7001 is equipped with voltage sense circuitry to monitor and responds to different voltage levels. Overvoltage and low voltage conditions will shut down the module to protect connected equipment.

Installing

When selecting a mounting location for the EV-7001, it is necessary to plan all wiring and cable routing before performing any installation. It is recommended to position the module near the equipment it will be controlling.

Use the EV-7001 as a template and scribe two drill positioning marks at the selected mounting location. Mounting centers are 2.5" (63.5 mm).



Before drilling holes in ANY part of a vehicle, be sure that both sides of the mounting surface are clear of parts that could be damaged, such as brake lines, fuel lines, electrical wiring or other vital parts.

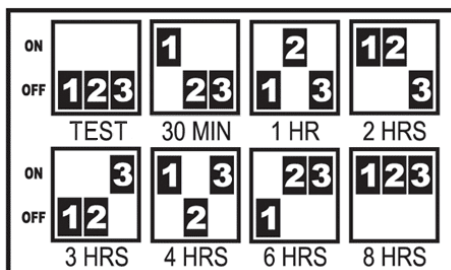


DO NOT drill holes in ANY part of the module. Damage to the unit, serious injury or death to you or others may result.

Programming & LED status indicator

Time delay switches are located on the bottom of the module. Using the table below to set the correct time.

LED display status of the EV-7001.



Fourth position switch -
On position disables over-voltage protection.

- No light - No power present to the module
- Green slow flash - Power present to the module, no output
- Green steady - Ignition or 13.8vdc present, output connected
- Green fast flash - Timing engaged, output connected
- Red fast flash - Overvoltage present, timer disengaged
- Red slow flash - Undervoltage present, timer disengaged

Wiring

Attach the red power wire to battery source with a customer supplied fuse (maximum 3 amps). Attach the black wire marked "ground" to a good clean negative ground.

Optional: Connect the yellow wire marked “ignition” to the vehicle ignition circuit of the vehicle. The module is capable of sensing voltage pick-up. Refer to the vehicle upfitting guide for proper location & connections.



It is recommended for the yellow wire marked “ignition” to be connected to the vehicle ignition circuit to activate the output in the event the engine fails to start. Connecting the yellow wire to the ignition circuit overrides the voltage sense reset feature and forces the module to activate the output at any voltage level between 10.8 vdc and 17.0 vdc.

Connect the pink/black pigtail to Tyco relay (P/N V23132-A2001-**00). The timer is designed to operate relays or electronic equipment up to 15 amps.

Ignition Sense Operation – yellow “ignition” wire used

ACTIVATION

When 12 vdc is applied to the yellow wire marked “ignition”, the module will activate the output infinitely at any voltage levels between 10.8 vdc and 17.0 vdc.

TIMING

Timing will start when 12 vdc is removed from the yellow wire and the output will remain connected for a selected time period.

OVER VOLTAGE

In the event of an over voltage condition of more than 17.0 vdc, the module will disconnect the output. Normal module operation is restored when voltage falls below 17.0 vdc. To disable this feature, set switch #4 to the on position.

UNDER VOLTAGE

In the event of an under voltage condition of less than 10.8 volts for more than 10 seconds, the module will disconnect the output. Normal module operation is restored when voltage reaches 10.8 vdc or above.

Voltage Sense Operation – yellow wire not used

ACTIVATION

The module will sense voltage pick-up from the alternator when the vehicle is started and activate the output at 13.5 vdc or higher.

TIMING

When the voltage drops below 13.0 vdc after activation, timing will start and the output will remain connected for the preselected time period.

OVER VOLTAGE

In the event of an over voltage condition of more than 17.0 vdc, the module will disconnect the output. Normal module operation is restored when voltage falls below 17.0 vdc. To disable this feature, set switch #4 to the on position.

UNDER VOLTAGE

In the event of an under voltage condition of less than 10.8 volts for more than 10 seconds, the module will disconnect the output. Normal module operation is restored when voltage reaches 10.8 vdc or above.