



EVM-IDM308VS Ignition Delay Module (30 min to 8 hrs – Voltage Sense)

General

The **EVM-IDM308VS** Ignition Delay Module provides ignition delay timing for connected electronic accessories. The module turns off electrical loads up to 30 amps 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 EVM-IDM308VS is sealed against vibration and moisture.

The **EVM-IDM308VS** 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 EVM-IDM308VS, 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 EVM-IDM308VS as a template and scribe two drill positioning marks at the selected mounting location. Mounting centers are 2.5" (63.5 mm).

⚠ CAUTION

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.

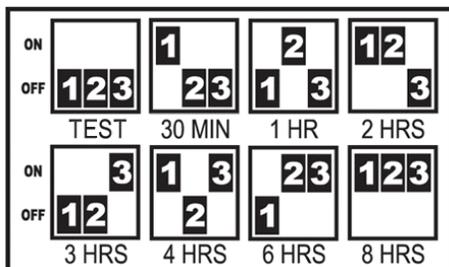
⚠ WARNING

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 EVM-IDM308VS.



* Fourth position switch not used

- 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 up to 20a. Attach the black wire to a good clean negative ground.

Optional: Connect the yellow wire 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 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 orange wire to electrical loads to be controlled by the module. Use relays or solenoids for loads more than 30a.

If additional wire is necessary, use same size gauge wiring or larger.

Ignition Sense Operation – yellow wire used

ACTIVATION

When 12 vdc is applied to the yellow wire, 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.

UNDER VOLTAGE

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

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.

UNDER VOLTAGE

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