

INSTRUCTIONS

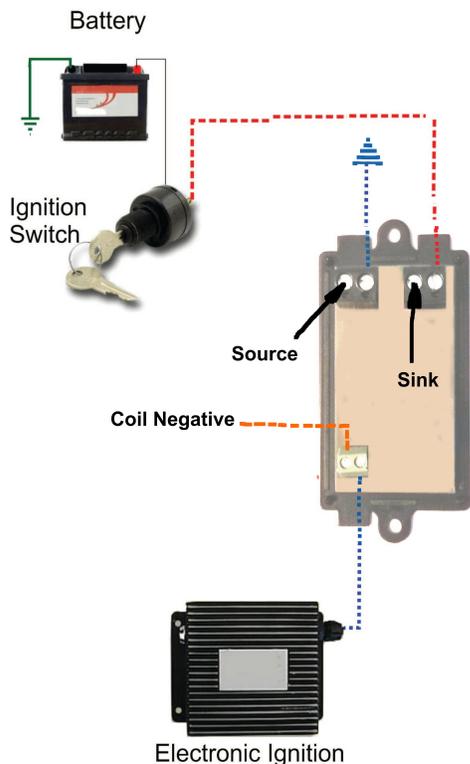
Tachometer Signal Conditioner Module

General

This module is designed to convert the voltage pulses found on the switched LV side of a car ignition coil into clean 1.2mS square wave pulses to drive equipment such as tachometers, shift lights, rev limiters etc.

Protected against reversed polarity

Suitable for 12V negative earth vehicles only



Connections..

There are 5 connections as shown in the diagram.

1. +12V and ground are pretty self explanatory. +12 can be provided by any connection that is live when the ignition is on.
2. For connection to Coil -ve (negative) terminal, connect to the high voltage terminal, the green terminal nearest the edge of the circuit board. If you are connection to a low voltage input such as the "Tach Out" terminal of an ECU or electronic ignition system, connect to the green terminal furthest away from the edge of the circuit board.
3. There are two different outputs. A low current source and a high current sink.
 - The terminal next to the ground terminal is a low current source output.
 - The terminal next to the 12V supply terminal is a high current sink output

There are also two inputs terminals, normally the high voltage input is connected directly to the coil -ve. If this does not trigger correctly, series resistors may be added.

The low voltage input is suitable for input voltages up to 14V, do not connect to the Low Tension coil terminals as the collapsing magnetic field can generate voltages in excess of 100V. Where triggering is still a problem with the basic unit, contact us for specialist advice.

Output specifications

Low current source

square wave
1.2mS positive pulses that are approximately 10V
Maximum current 150mA

High current sink

square wave
pulls the output to ground 1.2mS pulses
Max current in excess of 5A. (limited by environmental factors)

More information can be found on our website www.spiyda.com

