

HOFFMANN INNOVATIONS, INC.

AMP/EFI MS3PRO DIYAUTOTUNE

AMP EFI AXM-120 External VR Conditioner Module

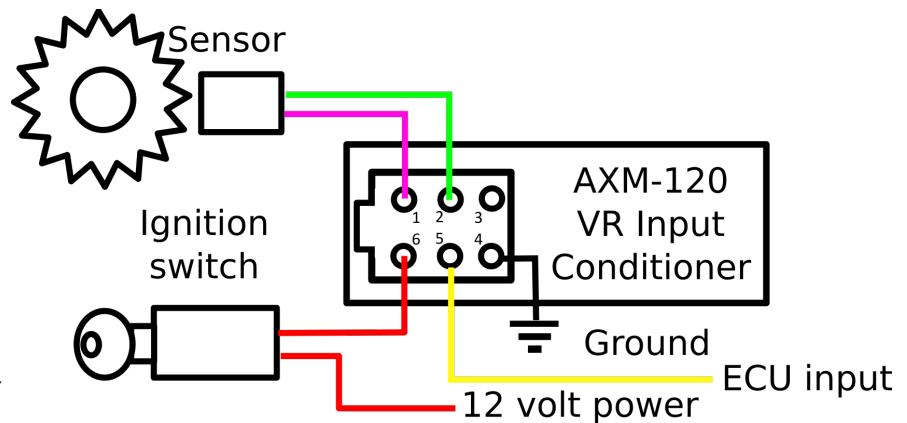
The AXM-120 is a VR (Variable Reluctor) conditioner module that turns a variable voltage sine wave signal into a 0-5 volt square wave. It is intended for use with camshaft position, crankshaft position, or other VR sensors. It will allow the use of a VR sensor with ECUs, dataloggers, and other motorsports devices with hall sensor inputs.

Wiring

The AXM-120 module uses an Amphenol AT connector, compatible with Deutsch DT and similar motorsports connectors. We include standard “closed barrel” terminals, which you can crimp with the same sort of tools you would use for Deutsch connectors or mil-spec terminals, such as Waytek Wire stock number 619.

Connector pinout:

1. VR sensor +
2. VR sensor -
3. No connection
4. Ground
5. Output signal
6. 12 volt switched power



Technical details

The AXM-120 is based around a Texas Instruments LM1815 conditioner. The AXM-120 will produce a 5 volt pulse when the input voltage goes negative. The module uses an adaptive filter to ensure that the signals received must have a peak voltage of at least 80% of the previous pulse, rejecting lower voltage pulses as noise. Minimum trigger voltage is 45 mV when the module originally powers up.

- Input: A/C sine wave from VR sensor
 - Minimum trigger voltage: 45 mV
 - Max input voltage: 108V peak to peak
- Output: 0-5V DC square wave, no pull up required
- Supply voltage: 7.0 to 22.0 volts DC
- Current draw: < 20 mA

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