

ETM81 Electronic Throttle Module

Specifications

Modes of Operation

Preset RPM Modes

Function:	Increases idle to a preset rpm
Number of presets:	Three
Input identification:	RPM1, RPM2 & RPM3
Activation:	Apply +12 V to input to select mode. Must be from +12 V Ignition power
Range of calibration:	900 to 2000 rpm
Calibration method:	Three internal potentiometers

Mode Priorities:

- RPM1 - Highest (will override all other modes)
- RPM2 - Second (will override lower mode)
- RPM3 - Third (Lowest priority)

Chassis Ready Conditions

The following conditions must be met before the ETM81 controller will initiate a fast idle mode:

1. Engine running at idle speed below 1000 rpm
2. No vehicle speed
3. Manual transmission in Neutral with clutch not depressed
4. Service brake not depressed
5. Accelerator pedal not depressed
6. Parking brake set
7. No Diagnostic Trouble Code (DTC) - Check Engine light must be off.
8. Clutch pedal not depressed.

Power Requirements

Input Voltage:	8 to 16 volts dc (from Ignition Switch)
Input Current:	30 milliamps

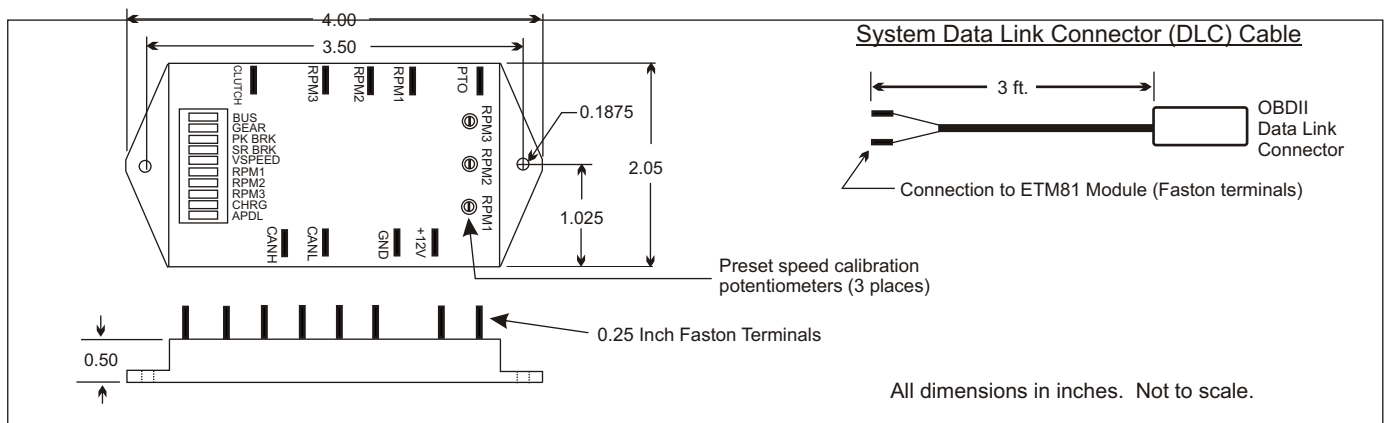
PTO Output

The PTO output is set (+12 volts @ 3 amps) to operate a PTO relay. This output turns on after all the chassis ready conditions are met and the engine speed has been increased to 900 rpm. After this output turns on there is a one second delay before the engine speed ramp up begins. This allows the PTO to completely engage at 900 rpm.
NOTE - Do not connect this to the OEM PTO wiring.

Fast Idle Applications

- Power Take Offs (PTO)
- Engine Warm Up
- Maintain Battery Charge
- Air Conditioner Efficiency
- Clutch Pumps

Mechanical Drawing



InPOWER LLC

Offered by:

InPOWER
Electrical System Solutions

L W30 R L
Ohio

Tel 740-548-0965

www.InPowerLLC.com

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