

## CAN BUS INTERFACE

### Function

The CAN Bus interface is designed to provide a vehicle speed signal for vehicles using a CAN Bus system. It is programmed to automatically detect the vehicle type and it will give a frequency output of approximately 1Hz per mph.

### Feature

The CB-1 features built-in diagnostic LEDs to indicate CAN Bus status and speed pulse output to aid the installation process. After power-up:

Stage 1: Both LEDs light for approx 1 second

Stage 2: Green LED on while the CB-1 listens for CAN Bus data

Stage 3: Red LED indicates CAN has been detected. CB-1 now detecting vehicle type

Stage 4: Once vehicle type is determined the Green LED should pulse when vehicle is driven. Red LED should stay on.

**Please note:** If LEDs do not follow the above sequence it is still advisable to drive the vehicle to see if a speed pulse signal is still actually being produced by the CB-1. It is possible that some vehicles will perform in a different manner.

### Fitting

The CAN Bus uses two wires for data transmission. One is called CAN\_HIGH and the other called CAN\_LOW (sometimes marked as CAN+ and CAN- respectively). All connections should be made with an **insulated solder joint**. **Do not cut the CAN Bus wires**.

### Controller Area Network (CAN)



### Module Information

#### **Wire Colours CAN Bus interface CB-1**

Colour	I/O	Function
Black	I	Ground
Red	I	Power +12V regulated ignition controlled supply
Yellow	I	CAN High
Blue	I	CAN Low
Orange	O	Speed Pulse Output 12V

#### **Output specification**

Vehicle Speed	Approximately 3600 pulses per mile
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#### **Inputs**

Power	+12v DC approx 30mA
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