

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. The CB-6 CAN Interface is versatile multi output device for obtaining vehicle speed pulse, engine speed, illumination*, reverse gear*, handbrake* and ignition signals from most CAN Bus equipped vehicles.

NOTE: The ignition output on the CB-6 is inverse, it is at 12v when the ignition is off and 0v when the ignition is on. This is so that the coil of a relay can be connected from a constant 12v supply on the vehicle to the output on the CAN interface and the relay will be energized when the output is low. Any relay with a coil impedance of 600hms or greater will work. *Dependant on vehicle configuration

Feature

The CB-6 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-6 listens for CAN Bus data

Stage 3: Red LED indicates CAN has been detected. CB-6 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-6. 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). The CAN connections on the CAN Bus interface should be connected on to the appropriate CAN Bus connections with an **insulated solder joint**.

Do not cut the CAN Bus wires.

Controller Area Network (CAN)



Module Information

Wire colours

I/O	Function	Wire Colour
I	Ground	Black
I	CAN High	Yellow
O	Output 1 – Lights	Brown
O	Output 3 – Reverse	Purple
O	Output 6 – Ignition feed – Please fit 2A fuse	Grey
I	+12v supply	Red
I	CAN Low	Blue
O	Output 2 – Park Brake	White
O	Output 4 - RPM	Green
O	Output 5 – Speed Pulse	Orange

Output specification

Vehicle speed	Approximately 3600 pulses per mile
Engine speed	2 pulses per revolution
Lights On/Off	12v = On, 0v = Off
Reverse signal	12v = Reverse, 0v = Forward
Handbrake signal	0v = On, 12v = Off
Ignition feed	Inverse signal, 12v when ignition off, 0v when ignition on. Relay required.

Inputs

Power	+12v DC approx 30mA
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