

CAN BUS INTERFACE

Function

The CAN Bus interface is designed to provide a range of signals from 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 CB8-R CAN Interface is versatile multi output device for obtaining vehicle speed pulse, engine speed, illumination*, reverse gear* and handbrake* signals from most CAN Bus equipped vehicles. It can also detect ignition switched status on some vehicles to provide an ignition switched feed of up to 2 amps*.

*Dependant on vehicle configuration.

Feature

The CB8-R 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 CB8-R listens for CAN Bus data

Stage 3: Red LED indicates CAN has been detected. CB8-R 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.

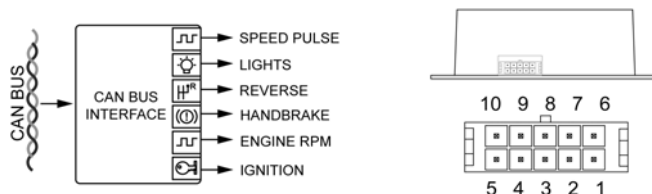
Please note: If LEDs do not follow the above sequence it is still advisable to drive the vehicle to see if a speed pulse signal is still actually being produced by the CB8-R. It is possible that some vehicles will perform in a different manner.

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.**

IMPORTANT As a fail-safe, an internal 3A fuse is fitted inside the CB8-R. However we recommend that a 2A fuse is fitted in the ignition output wire.

Controller Area Network (CAN)



Module Information

Module Connector CAN Bus Interface CB8-R			
Pin	I/O	Function	Wire Colour
1	I	Ground	Black
2	I	CAN High	Yellow
3	O	Output 1 – Lights	Brown
4	O	Output 3 – Reverse	Purple
5	O	Output 6 – Ignition feed – Please fit 2A fuse	Grey
6	I	+12v supply	Red
7	I	CAN Low	Blue
8	O	Output 2 – Park Brake	White
9	O	Output 4 - RPM	Green
10	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	2A max output when ignition is on

Inputs	
Power	+12v DC approx 30mA