

CAN Bus Speed Interface

(RLCSI01-V2)



In automotive testing, it is often necessary to have access to a vehicle or engine speed signal. The widespread use of CAN bus networking in modern vehicle wiring means that tapping into these signals is becoming ever more difficult.

Therefore, Racelogic have developed the CSI to give test engineers speed pulse signals directly from a vehicle CAN bus. No configuration is necessary as the CSI is able to determine the vehicle make that it is fitted to and automatically extract the speed information from the CAN bus.



Inputs and Outputs

Outputs (BNC Connector)	Signal	Amplitude
Vehicle Speed	Approximately 3600 pulses per mile	=Voltage applied to Pin 9
Engine Speed	2 pulses per revolution	=Voltage applied to Pin 9

Inputs (9 way Sub D)		
Power	+6v to +16v DC, Approx 30mA	
CAN Bus	Automatic detection of vehicle make* (see note)	

*Racelogic work continuously to update the vehicle makes covered by the CSI. Most European and Japanese vehicle makes that use CAN Bus are covered.

Connector Details

CAN Bus / Power connection			
Pin	I/O	Function	
1	-		
2	I	CAN LOW	
3	-		
4	-		
5	-		
6	I	Ground	
7	I	CAN HIGH	
8	-		
9	I	+ Power	

9 Way sub D

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Package Contents

Description	Product Code
1x CAN Bus Speed interface	RLCSI01-V2
2x BNC to Crocodile clip cables	IN01441
Optional extra:	
1x OBD II connection cable	RLCAB020*



RLCAB020



IN01441

Current Vehicle Coverage

At the time of writing, embedded CSI firmware contains CAN data for the following manufacturers:

Aston Martin	Jaguar	Porsche
Alfa Romeo	Jeep	Renault
Audi	Land Rover	Rover
BMW	Lexus	Saab
Chrysler	Mazda	Skoda
Citroen	Mercedes	Smart
Fiat	Mini	Suzuki
Ford	Mitsubishi	Toyota
GM Vauxhall / Opel	Nissan	VW
Honda	Peugeot	Volvo
Hyundai		

Please check our [vehicle CAN database](#) page online for further details of models covered.

*On some vehicle makes, CAN Bus information is available on the OBD-II connector. Please note however that this is not the case on all CAN bus equipped vehicles. Where CAN bus is not available on the OBD connector, it may be required to tap directly into the vehicle wiring loom. Please check our [vehicle CAN database](#) for advice on CAN bus location for specific vehicles.