

Wheel Speed Signal Splitter



- ► ABS Wheel Speed Sensor Interface
- ► Lightweight Aluminum Housing

Bosch Motorsport has developed a wheel speed module that converts the Bosch DF11 (differential dual hall sensors) signals to a signal that can be processed by peripheral engine controlling devices and data recording systems. The adapter can be plugged into any Bosch ABS M4 loom.

The operation principle is that it forwards the sensor information to the ABS. In addition it converts the speed info into a digital signal. The type of output is open collector. The connected device needs to contain an internal pull up resistor of 2.15 kOhm to 12 V

The interface is available in two different housings supporting one connector or two connectors (see photo). The single connector type is used if the signal is fed back into an especially pre-defined ABS loom which connects e.g. to the original chassis loom. The double connector type is used if the speed signal is broadcast to the peripheral device via a separate loom.

The wheel speed signal splitter is designed to be used in combination with the Bosch Motorsport ABS system. Due to safety reasons it is not designed for usage in combination with other ABS systems.

Application	
Application	ABS wheel speed sensor interface
Compatible sensor type	Bosch DF 11
Operating temperature range	-20 to 85°C
Storage temperature range	-20 to 85°C

Technical Specifications

Mechanical Data

Weight	53 g
Size (Single connector type)	101.8 x 63.5 x 30.3 mm
Size (Double connector type)	112.1 x 63.5 x 30.3 mm
Max. vibration	Vibration profile 1 (see Appendix or www.boschmotorsport.com)

Electrical Data

Power supply	12 V
Max. power supply (1 min)	25 V

Connectors

Connector 1 (wide)	AS212-35PN
Mating connector AS612-35SN	F 02U 000 443-01
Connector 2 (small)	AS208-35PN
Mating connector AS608-35SN	F 02U 000 430-01

Pinout Connector 1 (wide)

Pin	Description for one connector	Description for two con- nectors
1	Supply to DF11 (RR)	Supply to DF11 (RR)
2	Signal from DF11 (RR)	Signal from DF11 (RR)
3	Supply to DF11 (RL)	Supply to DF11 (RL)
4	Signal from DF11 (RL)	Signal from DF11 (RL)
5	Supply to DF11 (FR)	Supply to DF11 (FR)
6	Signal from DF11 (FR)	Signal from DF11 (FR)
7	Supply to DF11 (FL)	Supply to DF11 (FL)

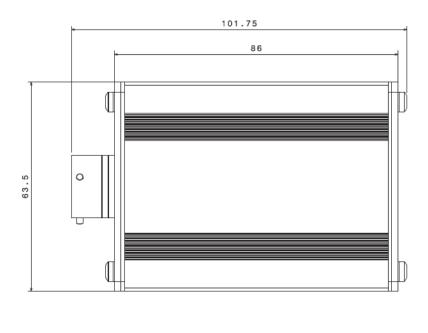
8	Signal from DF11 (FL)	Signal from DF11 (FL)
9	Signal to ABS (FL)	Signal to ABS (FL)
10	DF11 supply from ABS (FL)	DF11 supply from ABS (FL)
11	Signal to ABS (FR)	Signal to ABS (FR)
12	DF11 supply from ABS (FR)	DF11 supply from ABS (FR)
13	Signal to ABS (RL)	Signal to ABS (RL)
14	DF11 supply from ABS (RL)	DF11 supply from ABS (RL)
15	Signal to ABS (RR)	Signal to ABS (RR)
16	DF11 supply from ABS (RR)	DF11 supply from ABS (RR)
17	Open collector Signal to ECU (FL)	Not used
18	Open collector Signal to ECU (FR)	Not used
19	UBat 12V	UBat 12V
20	Open collector Signal to ECU (RL)	Not used
21	Open collector Signal to ECU (RR)	Not used

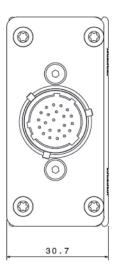
22	ECU Ground	Not used	
Pinout Connector 2 (small)			
Pin	Description for one connector	Description for two connectors	
1	n.a.	Open collector Signal to ECU (FL)	
2	n.a.	Open collector Signal to ECU (FR)	
3	n.a.	Open collector Signal to ECU (RL)	
4	n.a.	Open collector Signal to ECU (RR)	
5	n.a.	Not used	
6	n.a.	ECU Ground	
Orde	ering Information		
Sing	le Connector Type		

Order number F 02U V00 335-03

Double Connector Type
Order number F 02U V00 203-03

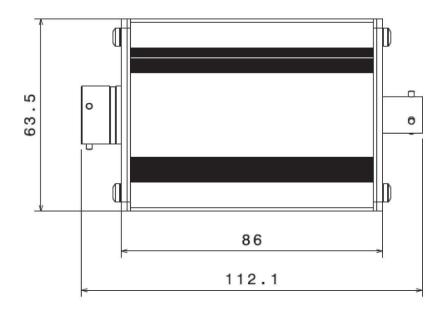
Dimensions

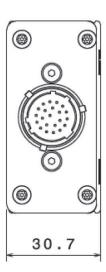




Front view Left view

Single Connector Type Housing

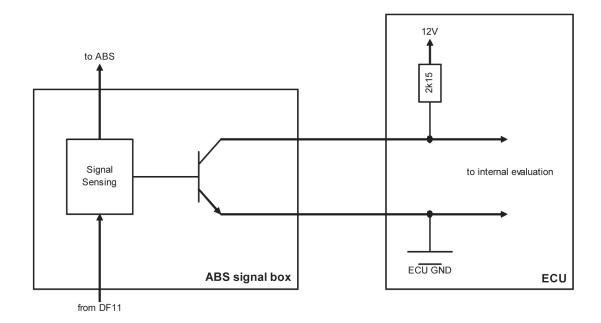




Front view

Left view

Double Connector Type Housing



Connection Scheme

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