Wheel Speed Signal Splitter

www.bosch-motorsport.com





- 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 like the MS 4 ECUs.

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	
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
Taskalonal	
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.bosch-motorsport.com)
Electrical Data	
Power supply	12 V
Max. power supply (1 min)	25 V

Connector 1 (wide)	AS-012-35-PN	
Mating connector AS-6-12-35-SN	F 02U 000 443-01	
Connectors for Double Connector Type		
Connector 1 (wide)	AS-2-12-35-PN	
Mating connector AS-6-12-35-SN	F 02U 000 443-01	
Connector 2 (small)	AS-2-08-35-PN	

F 02U 000 430-01

Pinout Connector 1 (wide)

Mating connector AS-6-08-35-SN

Pin	Description for one connector	Description for two connec- tors
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 connec- tors
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

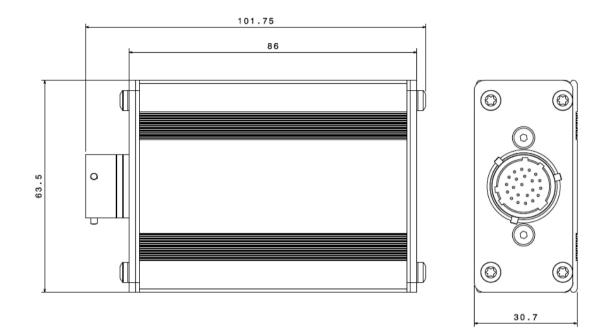
Ordering Information

Single Connector Type Order number F 02U V00 335-03

Double Connector Type

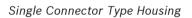
Order number **F 02U V00 203-03**

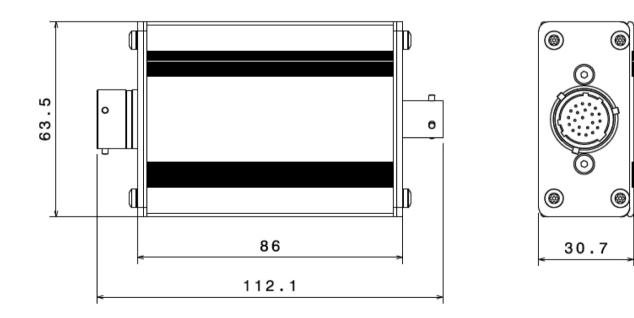
Dimensions



Front view

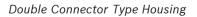
Left view

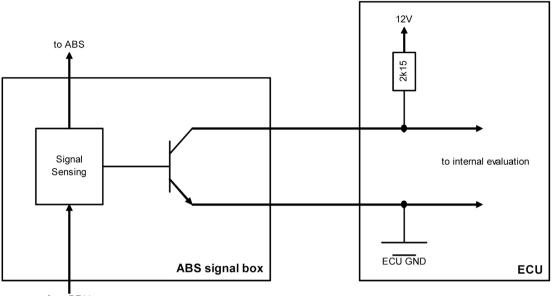




Left view

Front view





from DF11

Connection Scheme

Represented by:

Europe: Bosch Engineering GmbH Motorsport Robert-Bosch-Allee 1 74232 Abstatt Germany Tel.: +49 7062 911 79104 Fax: +49 7062 911 79104 motorsport@bosch.com www.bosch-motorsport.de

North America: North America: Bosch Engineering North America Motorsport 38000 Hills Tech Drive Farmington Hills, MI 48331-3417 United States of America Tel.: +1 248 876 2977 Fax: +1 248 876 7373 motorsport@bosch.com www.bosch-motorsport.com

Latin America: Robert Bosch Ltda Motorsport Av Juscelino Kubitscheck de Oliveira 11800 Zip code 81460-900 Curitiba - Parana Brasilia Tel.: +55 41 3341 2057 Fax: +55 41 3341 2779

Asia-Pacific: Asiaryactitic Bosch Engineering Japan K.K. Motorsport 18F Queen's Tower C, 2-3-5 Minato Mirai Nishi-ku, Yokohama-shi Kanagawa 220-6218 Japan Japan Tel.: +81 45 650 5610 Fax: +81 45 650 5611 www.bosch-motorsport.jp

Australia, New Zealand and South Africa: Robert Bosch Pty. Ltd Motorsport 1555 Centre Road Clayton, Victoria, 3168 Australia Tel.: +61 (3) 9541 3901 motor.sport@au.bosch.com

@ Bosch Engineering GmbH 2016 | Data subject to change without notice 13462473867 | en, V2, 30. Sep 2016