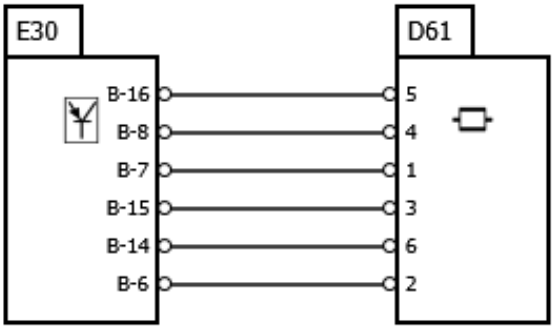
YS2R6X400E5345662 / COO, Coordinator / E 30, COO control unit / COO7 / D, Diodes, resistors and potentiometers / D61, Brake pedal sensor



D61, Brake pedal sensor

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The role of the brake pedal sensor is to provide the EBS control unit or coordinator (on vehicles without EBS control unit) information on brake pedal position.

The two Hall effect sensors of the brake pedal sensor transmit two separate output signals to the EBS control unit or coordinator. The voltage level of one signal is somewhat lower than the other one, and both values change linearly in relation to the brake pedal movements. The electric power supply and grounding for the Hall effect sensors are separate.

The supply voltage for both Hall effect sensors of the brake pedal sensor should be 5 V +/- 5%. The output signal 1 voltage should be 0.5 - 4.5 V, linearly in relation to the pedal position. The value for output signal 2 should be 0.4 V lower, linearly over the entire scale.

Brake pedal sensor 1, voltage level

The voltage level is measured on coordinator pin B8 and it applies to brake pedal sensor output signal 1, which is the normal output signal.When short circuited to ground: 0 V.When short circuited to a current carrying circuit: 24 V.When there is an interruption: 0 V.

Brake pedal sensor 2, voltage level

The voltage level is measured on coordinator pin B14 and it applies to brake pedal sensor output signal 2, which is the redundant output signal.When short circuited to ground: 0 V.When short circuited to a current carrying circuit: 24 V.When there is an interruption: 0 V.

Brake pedal sensor, calibrated value

The calibrated value of the brake pedal sensor's output signal 1, the "normal" output signals and the brake pedal sensor's output signal 2, the "redundant" output signal.