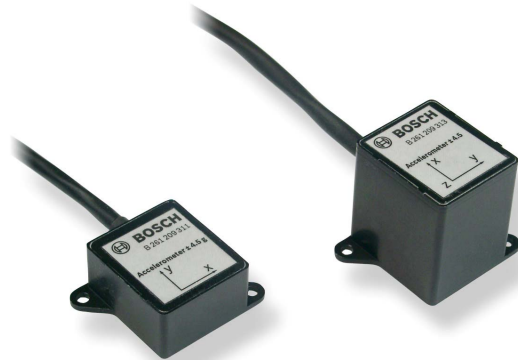


Acceleration Sensor AM 600-2, AM 600-3

This sensor is designed to measure the physical effects of lateral acceleration in two/three axes (e.g. for analysis of acceleration and deceleration behaviour of race cars).

In order to achieve this, the sensor features two/three measuring elements for acceleration, in two/three integrated circuits. The sensing element consists of a micro machined sensor chip and an evaluation ASIC – allowing for high precision measurement applications.

The main benefits of this high performance coil are its robustness in hard racing applications and high energy efficiency.



| Application | |
|-----------------------------|---|
| Application | [1] x, y ± 4.5 g [2] x, y, z ± 4.5 g |
| Max. vibration | 5000 m/s ² in operation |
| Storage temperature range | -55 ... 105 °C |
| Operating temperature range | -40 ... 85 °C |

| Electrical Data | |
|---------------------|---------------------|
| Power supply | 5 V |
| Power supply max. | 6 V |
| Full scale output | 2.5 = 0 g; 440 mV/g |
| Supply current | 7 mA |
| Supply current max. | 12 mA |

| Mechanical Data | |
|-------------------|--|
| Weight w/o wire | [1] 30 g [2] 50 g |
| Size | [1] 24 x 27 x 13.5 mm [2] 24 x 27 x 29.8 mm |
| Mounting | 2 x M3 |
| Tightening torque | 2 Nm |

| Characteristic | |
|------------------------------|----------------|
| Sensitivity | 440 mV/g |
| Offset | 2,500 mV @ 0 g |
| Tolerance of sensitivity | ± 3 % |
| Non-linearity of sensitivity | ± 2 % |

Connectors and Wires

Connector ASL 6-06-05PA-HE

Mating connector ASL 0-06-05SA-HE

Pin 1 Us

Pin 2 Gnd

Pin 3 [1] Sig_x
[2] Sig_y

Pin 4 [1] Sig_y
[2] Sig_x

Pin 5 [1] Scr
[2] Sig_z

Various motorsport and automotive connectors are available on request.

Sleeve DR-25

Wire size AWG 24

Wire length 15 ... 100 cm

Please specify the required wire length with your order.

Application Hint

The AM 600 can be connected directly to most control units and data logging systems.

Please avoid abrupt temperature changes.

For mounting please use only the integrated fixed hole.

Please ensure that the environmental conditions do not exceed the sensor specifications.

Please find further application hints in the offer drawing (<http://www.bosch-motorsport.com>).

Part Numbers

[1] AM 600-2 **B 261 209 311-04**

[2] AM 600-3 **B 261 209 313-02**

