



Acceleration Sensor AM 600-3



- ▶ 3-axis
- ▶ Measurement range: $\pm 4,5$ g
- ▶ 5 Hz low-pass filtered

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

In order to achieve this, the sensor features three measuring elements for acceleration, in 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

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

Technical Specifications

Mechanical Data

Weight w/o wire	50 g
Size	24 x 27 x 29.8 mm
Mounting	2 x M3
Tightening torque	2 Nm

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

Characteristic

Sensitivity	440 mV/g
Offset	2,500 mV at 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	U _S
Pin 2	Gnd
Pin 3	Sig _y
Pin 4	Sig _x
Pin 5	Sig _z
Sleeve	DR-25
Wire size	AWG 24
Wire length	15 to 100 cm

Various motorsport and automotive connectors are available on request.

Please specify the required wire length with your order.

Installation Notes

The AM 600-3 can be connected directly to most control units and data logging systems.

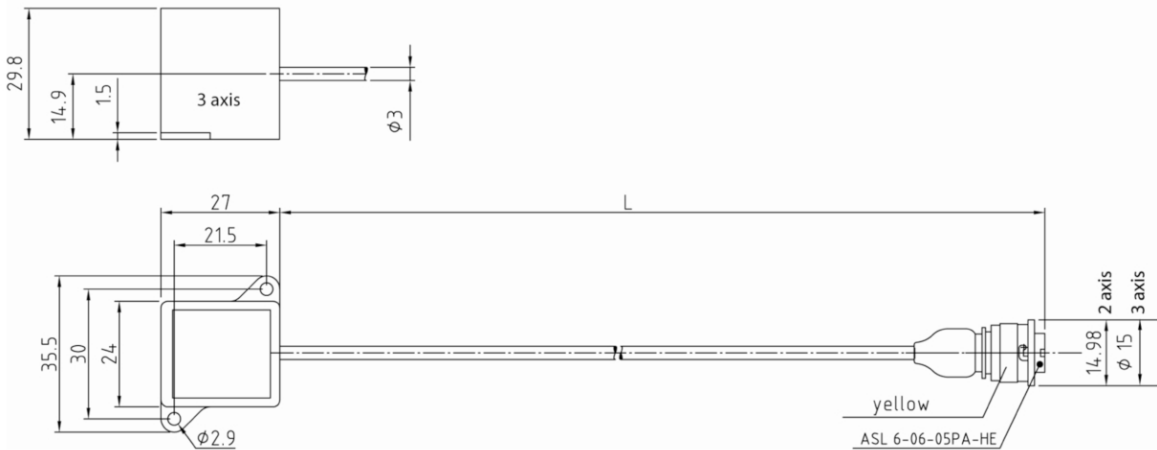
Please avoid abrupt temperature changes.

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 at our homepage.

Dimensions



Ordering Information

Acceleration Sensor AM 600-3

B 261 209 313-02

Europe:
 Bosch Engineering GmbH
 Motorsport
 Robert-Bosch-Allee 1
 74232 Abstatt
 Germany
 Tel.: +49 7062 911 79101
 Fax: +49 7062 911 79104
 motorsport@bosch.com
 www.bosch-motorsport.de

North and South America:
 Bosch Engineering North America
 Motorsports
 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

Asia Pacific:
 Bosch Engineering Japan K.K.
 Motor Sport Department
 3-33-8 Tsuruya-cho, Kanagawa-ku, Yokohama-shi
 Kanagawa 221-0835
 Japan
 Tel.: +81 45 410 1650
 Fax: +81 45 410 1651

Represented by