

ASC 5521 → ASC 5525

New Generation
Triaxial
5 or 12 wire system
Amplified Output
Aluminium Housing

New Generation
Triaxial
5 or 12 wire system
Amplified Output
Stainless steel Housing



Features

- Range: 2g to 200g
- High Shock Resistant
- Gas damping
- DC response
- ASCteds Module
- Water Protection IP67

New Generation:

- Excellent Bias Stability
- Excellent Scale Factor Stability
- Low Power Consumption
- Low Noise

Options

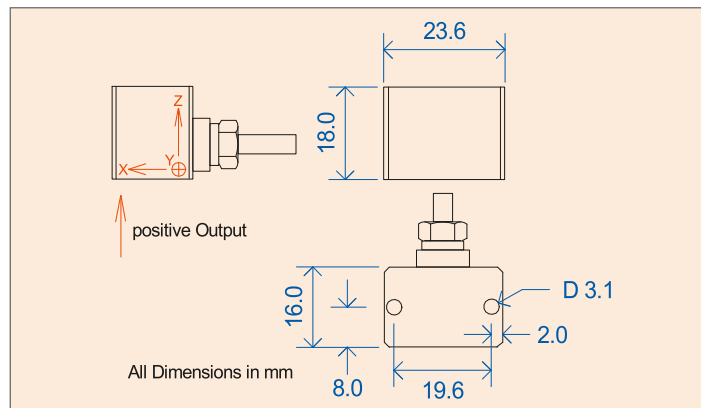
- customized cable length
- customized connector
- ASCteds Sensor ID Module
- Dallas ID

Service

- Pendulum calibration
- Sinusoidal calibration

Applications

- Train Control
- Automotive
- Environment
- Aerospace
- Engineering



Description

The models **ASC 5521** and **ASC 5525** are triaxial accelerometers based on a capacitive technology. Each of the three axes is working independently in the case of the 12 wire system. Furthermore its housing is splash-proof and therefore the sensor is ideal for automotive comfort testing as well as truck testing. The housing provides environmental sealing to IP67. The **ASC 5521** and **ASC 5525** are manufactured with an **improved chip technology**. Both ASC accelerometers therefore benefit from the high stability of the new chip technology with a low noise level and a low bias and scale factor temperature coefficient.

The **ASC 5521** and **ASC 5525** are over a wide temperature range fully compensated and factory calibrated. Because capacitive technology is used, extremely small measuring ranges are possible. The amplified output is easy to use with a data acquisition unit. The signal is independent from the power between +8 VDC to +30 VDC. A very high flexible and rugged cable provides a simple mounting. The **ASC 5521** and **ASC 5525** are equipped as standard with 6m cable.

General Technical Data

Supply Voltage		8 VDC - 30 VDC
Operation Current max.		2 mAmp
Linearity:typ. FSO		< 0.8%
Damping Ratio typ.		0.7
Transvers Sensitivity: typ.		2%
Signal Output		+/- 2,000 VDC FSO
Zero Output		2,500 mV +/-10 mV
Reference Output		2,500 mV
Output Impedance		10 kOhm
TC Span		all 100 ppm/°C typ.
Noise		17 µVRootHz
Shock Resistant		7,000g
Operating Temperature		-20° C to +100° C
Storage Temperature		-40° C to +120° C
Weight	Housing	ASC 5521: 22 gram ASC 5525: 42 gram
	Cable	5 wire system 12 gram/meter 12 wire system 30 gram/meter
Material	Housing	ASC 5521: Aluminium, hard anodized ASC 5525: Stainless steel
	Cable	AWG 30, Polyuithan (PU) 5 wire system diameter 3.0 mm, 12 wire system diameter 4.4 mm
Housing	dimensions	23.6 mm x 16.0 mm x 18.0 mm

At 10 VDC Supply and 25° C

Individual Technical Data

Range +/-2 g	Sensitivity	1000 mV/g
	Frequency +/- 5%	100 Hz
	TC Zero	0.1 mg/° C typ.
Range +/-5 g	Sensitivity	400 mV/g
	Frequency +/- 5%	100 Hz
	TC Zero	0.3 mg/° C typ.
Range +/-10 g	Sensitivity	200 mV/g
	Frequency +/- 5%	150 Hz (1,000 Hz optional avail.)
	TC Zero	0.5 mg/° C typ.
Range +/-30 g	Sensitivity	66 mV/g
	Frequency +/- 5%	1,000 Hz
	TC Zero	1.5 mg/° C typ.
Range +/-50 g	Sensitivity	40 mV/g
	Frequency +/- 5%	1,500 Hz
	TC Zero	2,5 mg/° C typ.
Range +/-100 g	Sensitivity	20 mV/g
	Frequency +/- 5%	1,500 Hz
	TC Zero	5,0 mg/° C typ.
Range +/-200 g	Sensitivity	10 mV/g
	Frequency +/- 5%	1,700 Hz
	TC Zero	10 mg/° C typ.

Cable Code 5 wire system: White Signal x-axis
Red Supply + Green Signal y-axis
Black Supply - Yellow Signal z-axis

Cable Code 12 wire system Black Supply -
(4 per axis): Green signal +
Red Supply + White signal -

- ① Model: ASC 5521: aluminium, ASC 5525: stainless steel
- ② Range: e.g. 050 is 50g
- ③ Cable: Length in Meter
- ④ Connector and Pinout / „A“ is for No Connector

Order Information

ASC 5521-XXX-6XX

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