Honeywell

Model MAV52

Accelerometer



DESCRIPTION

The SENSOTEC Model MAV52 amplified piezoelectric accelerometers with velocity output are designed to be used in Industrial test and automation environments; including laboratory testing, modal studies and test cells. The MAV52 is ideal for applications where velocity content of vibration is a more meaningful parameter to measure and where noise issues or system simplicity makes integration of the acceleration signal in the sensor rather than the signal conditioningmore attractive. The 4 mA to 20 mA output makes it ideal in applications where noise, cable losses and long cable runs are likely to be an issue. The seismic element is mechanically isolated from the mounting base, resulting in a low base strain sensitivity. The stainless steel materials are non-magnetic resulting in very low magnetic field susceptibility. These features, together with asealed body, assure accurate and reliable data. The model MAV52 is available in a number of configurations and options that includes connector or integral stainless steel armored cable (specify length at time of ordering), intrinsically safe option or a submersible format. The mounting hole can be supplied with different threads. The Model MAV52 can be supplied in a number of different sensitivites to suit the expected vibration levels for the application.

FEATURES

- Velocity measurement
- 2 Hz to 10 kHz usable frequency range
- 4 mA to 20 mA proportional to velocity
- Submersible option

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Model MAV52

PERFORMANCE SPECIFICATIONS

Characteristic	Measure
Dynamic range	50 G
Sensitivity	25,4 mm/s for 4 mA to 20 mA
Transverse sensitivity	Less than 5 %
Temperature sensitivity	0.145/°F
Frequency range	2 Hz to 1 kHz ±10 %
Amplitude linearity	Better than 1 % linearity
Mounted base resonance	5 kHz

ENVIRONMENTAL SPECIFICATIONS

Characteristic	Measure
Temperature, operating	-23 °C to 99 °C [-10 °F to 210 °F]
Sealing, AG928 and AG932	IP67/NEMA 4
Sealing, AG929	IP68/NEMA 4x

ELECTRICAL SPECIFICATIONS

Characteristic	Measure
Input	Voltage
Output	4 mA to 20 mA
Supply voltage	12 V to 32 V
Current range	0.5 mA to 8 mA
Bias voltage	12 Vdc
Cable[2], AG932	Stainless steel armored PTFE
Cable[2], AG929	PU
Standard cable length[2]	4,9 m [16 ft]
Electrical noise	0.3 mG max.
Isolation	Base isolated
Mating connector[1]	MH008

MECHANICAL SPECIFICATIONS

Characteristic	Measure
Weight	0,14 kg [5 oz]
Material	Stainless steel
Mounting torque	6 ft-lb

RANGE CODES

Range Code	Range
SA	12,7 mm/s RMS
SB	25,4 mm/s RMS
SC	50,8 mm/s RMS
SD	101,6 mm/s RMS

WIRING CODES

AG928	
Pin A	(+) ve Accel.
Pin B	No connection
Pin C	0 V

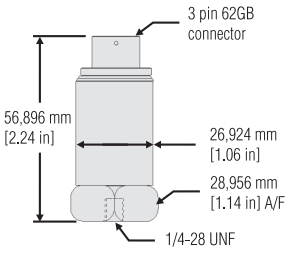
AG929	
Red	(+) Supply
Blue	(+) Output
Shield	Case ground

AG932	
White	(+) Supply
Black	(+) Output
Shield	Case ground

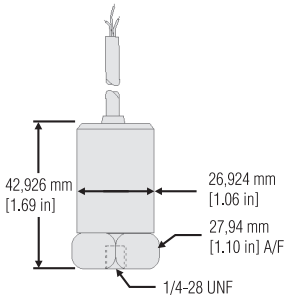
OPTION CODES

	Many range/option combinations are available in our quick-ship and fast-track manufacture programs. Please see http://sensing.honeywell.com/TMsensor-ship for updated listings.
Sensitivity	12,7 mm/s RMS; 25,4 mm/s RMS ; 50,8 mm/s RMS; 101,6 mm/s RMS
Electrical termination	3-pin 62 GB connector[1] Cable length[2] (specify cable length at time of order)
Mounting arrangement	17b. 1/4-28 UNF 17c. Quickfit female

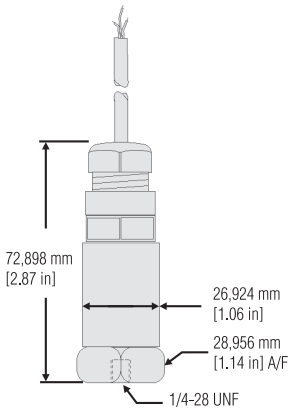
MOUNTING DIMENSIONS



Model MAV52 (order code AG928)



Model MAV52 (order code AG932)



Model MAV52 (order code AG929)

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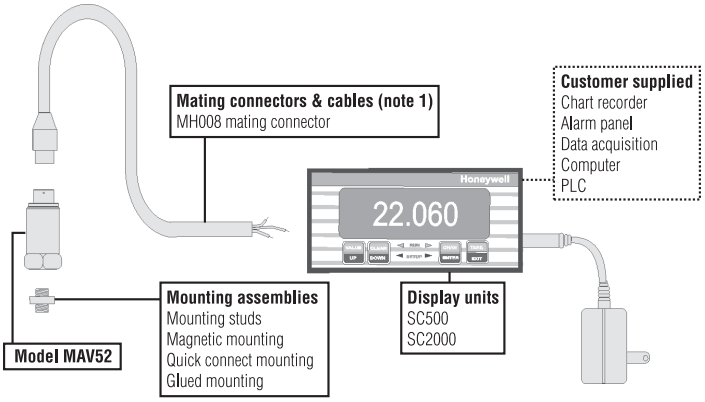
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NOTES

1. Only available with AG928.
2. Only available with AG929 and AG932.

TYPICAL SYSTEM DIAGRAM



Warranty. Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgement or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items it finds defective. **The foregoing is buyer's sole remedy and is in lieu of all warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.**

While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

For more information about Sensing and Control products, visit www.honeywell.com/sensing or call +1-815-235-6847
Email inquiries to info.sc@honeywell.com

⚠ WARNING

PERSONAL INJURY

- DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

Failure to comply with these instructions could result in death or serious injury.

⚠ WARNING

MISUSE OF DOCUMENTATION

- The information presented in this catalogue is for reference only. DO NOT USE this document as product installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.

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