Tel: +41 44 810 21 50 Fax: +41 44 810 23 50 E-mail: info@geosig.com Web: www.geosig.com



# VE-33 / VE-32 / VE-31-V / VE-31-H Velocity Sensor

### Features

- Sensitivity G 27.3 Vs/m
- Bandwidth 4.5 Hz to 315 Hz
- **Civil Engineering and general vibration** measurement applications
- □ Single Bolt Mounted Housing provides up to ± 10° of levelling adjustment
- Surface and Wall mount
- Temperature compensitated
- Downhole Version (VE-3x-DH) is also available



## Outline

The VE Velocity Sensors are engineered for consistent performance over a long lifetime. Advanced computerised testing, manufacturing techniques and quality control are used in the production process to provide both, the uniform parameters and the rugged qualities required in modern velocity sensors.

The sensor module has proven itself successfully worldwide for many years in different applications. The symmetrical rotating dual coil construction minimises the force on the spring arms. The use of precious metals ensure optimum electrical contact and a long operating adjusting capability during mounting. life.

The VE Velocity Sensors has its 3 dB at 4.5 Hz and and can be used for a variety of civil engineering and general vibration measurement applications. The VE-31-H is uniaxial horizontal, the VE-31-V uniaxial vertical, VE-32 biaxial and the VE-33 is a triaxial velocity sensor.

The VE Velocity Sensors are housed in a very compact 195 x 112 x 96 mm case. The sealed cast aluminium housing contains a MS style connector or a sealed cable inlet. The housing also incorporates a single bolt mount with three levelling screws, which offers extended





# Specifications VE-33 / VE-32 / VE-31-V / VE-31-H Velocity Sensor

#### **General Characteristics** Application:

Configurations:

VE-33: VE-32-H: VE-32-V: VE-31-H: VE-31-V:

### Specification

Instrument Type: Dynamic Range: Linearity: Cross Axis Sensitivity: Frequency Response: Damping: Sensitivity G: Output Impedance:

X (or Y) – Z . X (or Y) Ζ H: Horizontal. V: Vertical > 96 dB < 0.3 % of full scale < 0.1 % of full scale 4.5 to 315 Hz standard 0.7

measurement

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Triaxial Biaxial Uniaxial

Civil engineering, general vibration Alignment\*\* Axes X - Y - Z $\mathsf{H}-\mathsf{H}-\mathsf{V}$ H - HX – Y H – V Н V

Digital grade long travel geo-phones

Power Supply Voltage: **Connector Pin Configuration** Pin 1-2, 3-4, 5-6 Pin 7 **Environment / Housing** Housing Type: Housing Size: Weight: Index of Protection: Temperature Range: Humidity: Mounting: **Downhole Version** 

no power required

Signal output for axis X, Y, Z Shield

Cast aluminium Sealed access cover 195 x 112 x 96 mm 1.0 kg IP 65 -25 to 85 °C (operating) -40 to 100 °C (storage) 0 to 100 % (non-condensing) Single bolt, surface mount, adjustable within ± 10°

See separate datasheet

Floor mounted 2 m cable with sensor mating connector, concrete anchor and user manual on CD

**Ordering Information** Specify:

Standard VE-3x

Type of VE-3x, and other applicable options



See plot

27.3 Vs/m

**430** Ω



