

SV 85

General Purpose Vibration Accelerometer



SV85 is a triaxial accelerometer (IEPE) for vibration measurements with the SVAN958A Vibration Meter. The accelerometer housing is hermetically sealed and suitable to monitor the vibration in a harsh industrial environments. The signal ground is isolated from the mounting surface and the outer housing to prevent ground loops.

Technical Specifications

Performance

Number of Axes Sensitivity (± 10 %) Measurement Range Frequency Response (± 3 dB)

Resonant Frequency Residual Noise (1 Hz, 24°C) Residual Noise (1 kHz, 24°C)

Electrical

Supply Current (IEPE) Supply Voltage (IEPE) Bias Voltage (IEPE) Output Impedance (Nominal) Charge / Discharge Time Constant (start-up time)

Environmental Conditions

Maximum Vibration (shock survival) Thermal Sensitivity Coefficient Operating Temperature Range (recommended) Humidity / Enclosure

Physical

Connector Dimensions

Weight

Mounting Thread Material Housing & Connector 3
10 mV/(m/s²) \sim 100 mV/g
0.005 m/s² RMS \div 500 m/s² Peak
0.5 Hz \div 13 000 Hz (Z axis);
0.5 Hz \div 10 000 Hz (X, Y axis)
40 kHz
300 μ g RMS
3000 μ g RMS

2 mA \div 10 mA 22 V \div 28 V +12 +/- 2 VDC 50 Ω

< 1 sec. typ.

50 000 m/s² Peak 0.1 %/°C F.S.

Stainless steel

from -10 °C to +50 °C Not affected, hermetically sealed

M12 glass sealed 33,3x46,6x17.5 mm (with connector) 33,3x32,7x17.5 mm (without connector) 117 grams (with M6 mounting thread) 111 grams (without M6 mounting thread) 4

SA 154 Calibration Adapter to SV 85

Optional accessories



SV 111 Field Vibration Calibrator



SV 110 Hand-held Vibration Calibrator



SC 282 Cable to SV 85 and SVAN 958A