

# SV 80

## General Purpose Vibration Accelerometer

The SV 80 is an industry standard IEPE accelerometer offered to SVAN 974. It is an ideal choice for walk-around vibrations measurement in the rugged environments of industrial machinery monitoring, such as pumps, motors or fans. The accelerometer is mounted on a vibrating surfaces with the mounting magnet.

The design of SV80 features the low electronic noise and wide temperature operating range.



### Technical Specifications

#### Performance:

Number of Axes	1
Sensitivity ( $\pm 5\%$ )	10 mV/(ms <sup>-2</sup> ) ~ 100 mV/g
Measurement Range	0.01 ms <sup>-2</sup> RMS $\div$ 500 ms <sup>-2</sup> Peak
Frequency Response (by design guideline, $\pm 3$ dB)	0.5 Hz $\div$ 14 000 Hz
Resonant Frequency	25 kHz
Residual Noise (1 Hz, 24°C)	30 $\mu$ g RMS
Residual Noise (1 Hz to 25 kHz, 24°C)	300 $\mu$ g RMS

#### Electrical:

Supply Current (IEPE)	2 mA $\div$ 10 mA
Supply Voltage (IEPE)	22 V $\div$ 28 V
Bias Voltage (IEPE)	+12 VDC
Output Impedance (Nominal)	50 $\Omega$
Charge / Discharge Time Constant (start-up time)	< 1 sec. typ.

#### Environmental Conditions:

Maximum Vibration (shock survival)	50 000 ms <sup>-2</sup> Peak
Thermal Sensitivity Coefficient	0.07 %/°C F.S.
Operating Temperature Range (recommended)	from -10 °C to +50 °C
Humidity / Enclosure	IP67, epoxy sealed

#### Physical:

Connector	TNC socket, top radially mounted
Weight	40 grams
Mounting Thread	10-32 UNF 2B

#### Accessories:

Mounting Stud	10-32 to M5 (included)
SA 27/10-32	Mounting magnet base (optional)
SC 27	Coil cable TNC plug – TNC plug, 2 meters (optional)

The policy of our company is to continually innovate and develop our products. Therefore, we reserve the right to change the specifications without prior notice.