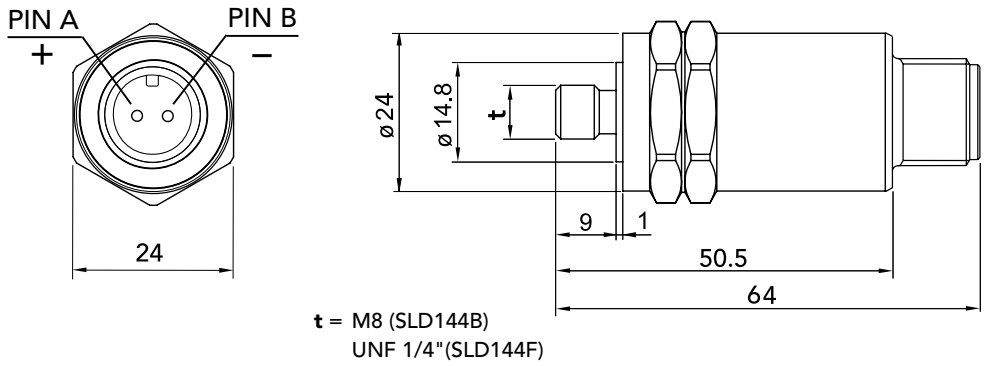
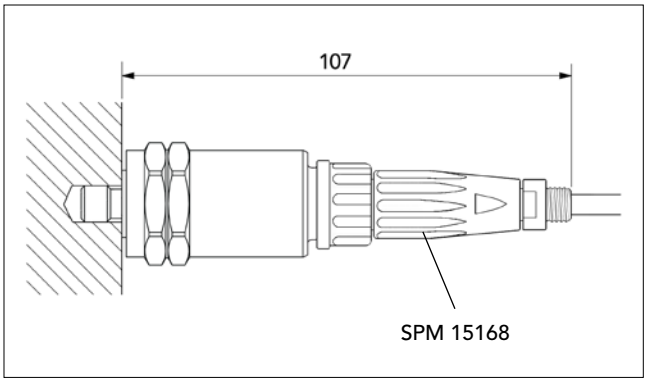
Vibration Transducer SLD144B / SLD144F



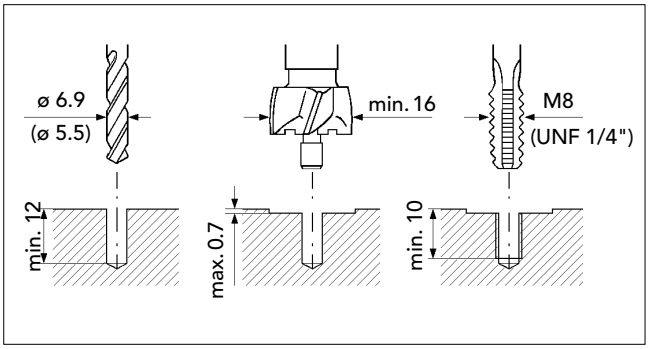
The vibration transducer SLD144B and SLD144F are piezo-electric accelerometers of compression type with built-in preamplifier, designed for vibration monitoring of industrial machinery. The electrical signal is isolated from the transducer housing.

The transducer is mounted against a smooth, flat surface on the machine. SLD144B has thread size M8 and SLD144F has thread size UNF 1/4". The transducer is connected via a twisted pair cable with 2 pin connector, compatible with 2 pin MIL-C-5015 style.



Technical data

Nominal sensitivity, main axis:	10 mV/m/s² * =100 mV/g
Transverse sensitivity:	max. 10%
Typical base strain sensitivity:	0.01 m/s²/µ strain
Linear frequency range:	2 Hz - 10 kHz (±1 dB) (–3 dB at 0.7 Hz typ)
Max. peak acceleration:	600 m/s² = 60 g
Settling time:	3 sec
Bias point:	11 to 13 V (typical 12 V)
Temperature range:	–40° C to +125° C (–40° F to 260° F)
Power requirements:	24 V / 2 to 5 mA
Casing:	Stainless acid proof steel
Sealing:	IP 67 together with appropriate connector
Isolation:	Case isolated, > 1 Mohm
Torque limit:	10 Nm (7.4 lbf·ft)
Weight:	110 grams (4 oz)
Connector type:	Compatible with 2 pin MIL-C-5015 style

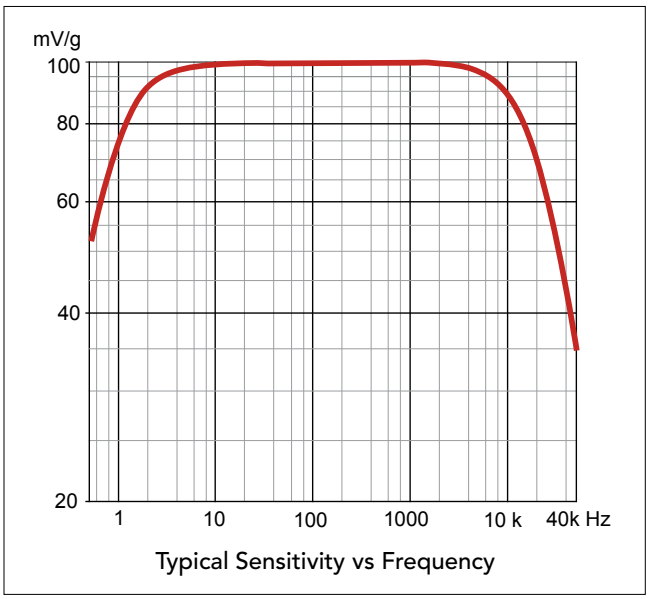


* Individual value given on the calibration chart.

Mounting tools

81027 Holder for counterbore
81030 Pilot for UNF 1/4" (SLD144F)
81031 Pilot for M8 (SLD144B)
81057 Counterbore, diameter 20 mm

To drill the mounting hole, use drill bit 6.9 mm for M8 and 5.5 mm for UNF 1/4". Torque the transducer with a 24 mm torque wrench.



Typical Sensitivity vs Frequency

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