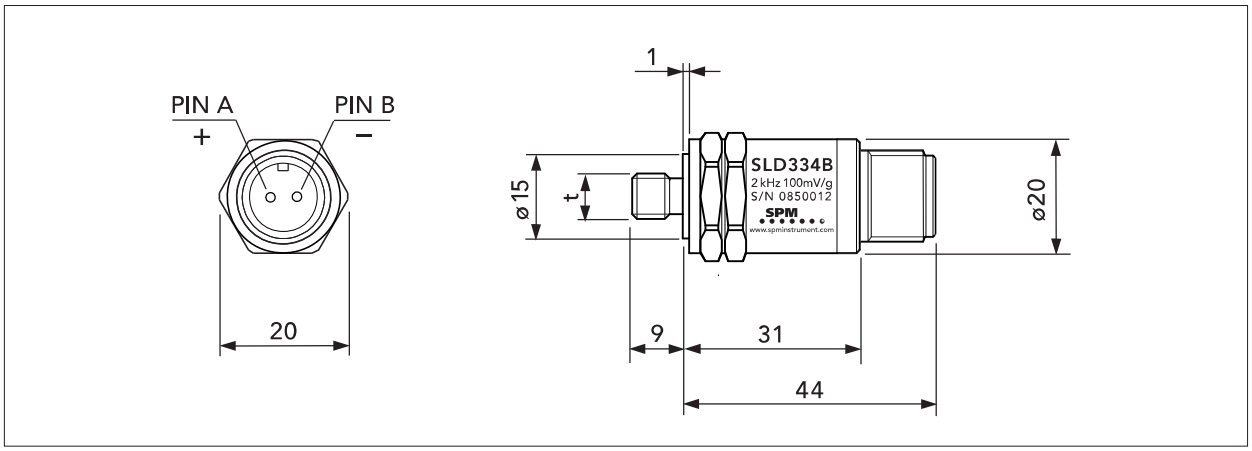
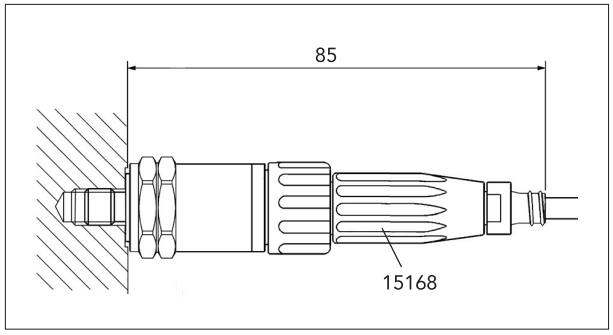
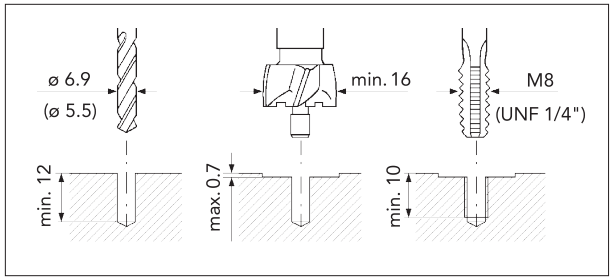
Vibration transducers, series SLD 300



The vibration transducers series SLD300 are small accelerometers based on micro-electro-mechanical-systems (MEMS) technologies, 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 min. 16 mm in diameter. The transducer is connected via a twisted pair cable with 2 pin connector. In moist environment, use the sealed connector with integrated measuring cable SPM 46162/46163 together with cable protection tube SPM 81385.





Technical specifications

Transverse sensitivity:	max. 5%
Typical base strain sensitivity:	0.01 m/s²/µ strain
Linear frequency range:	1 to 1000 Hz (±1 dB) 1 to 2000 Hz (±3 dB)
Max. peak acceleration:	10 g
Settling time:	3 sec
Temperature range:	–20° to +85° C (–4° to +185° F)
Power requirements:	24 V / 2 to 5 mA
Casing:	Stainless acid proof steel Sandvik 1802, EN:14523
Sealing:	IP66/67 together with appropriate connector
Isolation:	Case isolated, > 1 Mohm
Thread (t):	M8x1.25 or UNF 1/4"-28
Torque limit:	10 Nm (7.4 lbf·ft)
Weight:	55 grams (2 oz)
Connector type:	Compatible with 2 pin MIL-C-5015 style
Cable length:	max. 100 m

Article number	Thread (t)	Nom. sensitivity *	Bias Point
SLD 322B-M8	M8x1.25	4 mV/m/s² = 40 mV/g	6-9.5V (typ 8V)
SLD 322B-UNF	UNF 1/4-28	4 mV/m/s² = 40 mV/g	6-9.5V (typ 8V)
SLD 334B-M8	M8x1.25	10 mV/m/s² = 100 mV/g	9-13V (typ 11V)
SLD 334B-UNF	UNF 1/4-28	10 mV/m/s² = 100 mV/g	9-13V (typ 11V)

* Individual value given on the calibration chart.

Mounting tools

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

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

SPM Instrument AB • Box 504 • SE-645 25 Strängnäs • Sweden
Tel +46 152 22500 • info@spminstrument.se • www.spminstrument.com