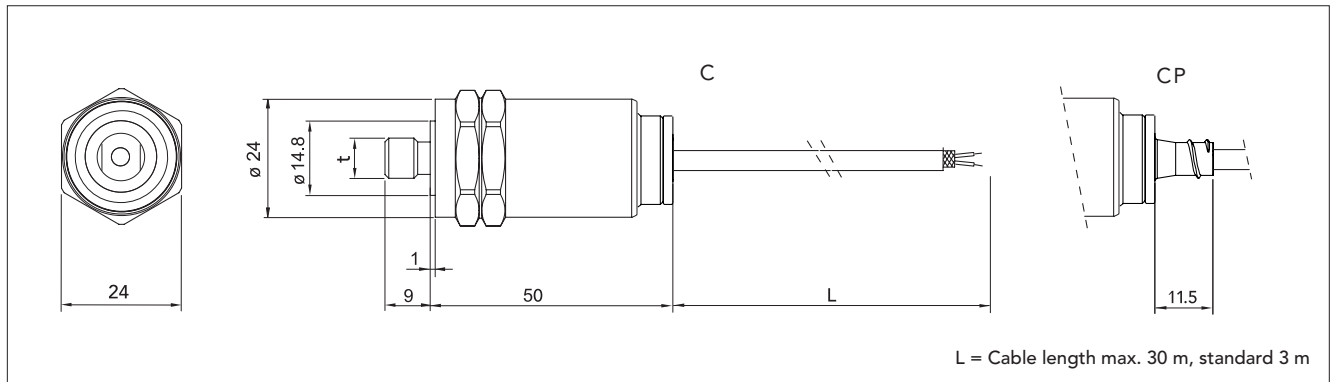


Vibration Transducer SLD244 with Top Cable, Ex



The vibration transducers series SLD200 with integrated cable are piezo-electric accelerometers of compression type with built-in electronics, designed for vibration monitoring of industrial machines inside the area with potentially explosive atmosphere. The connection must be made through a barrier mounted in the safe area. The transducers have different mounting threads and sensitivity.

Safety

Installation to be conducted in accordance with IEC 60079-14. Use Ex interface SPM 1731X, SPM 1764X or any approved barrier with following safety description: $U_0 \leq 28 V_{DC}$ $I_0 \leq 93 mA_{DC}$. The cable SPM 90389 has an additional cable capacitance of 210 pF/m.

Marking

IM1 Ex ia T4 Ma
 II 1 G Ex ia IIC T4 Ga
 II 1 D Ex ia IIC T114 °C Da
 T_a -40 to +100°C
 U_i : 28V I_i : 93mA P_i : 0.66W
 C_i : 54nF L_i : 5μH

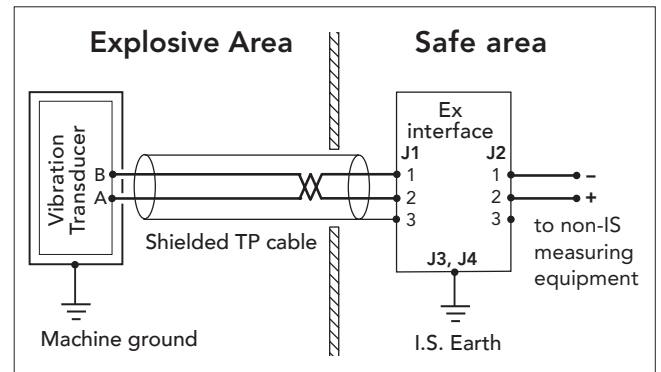
List of Complying Standards

EX – General requirements: IEC 60079-0:2011
 EN 60079-0:2012
 EX – Intrinsic safety: IEC 60079-11:2011
 EN 60079-11:2012
 EX – Ga equipment: IEC 60079-26:2006
 EN 60079-26:2007

ARTICLE NO: SLD244 - XXX - XX
 A B C D

A. Part number SLD244
 B. Connection C = Integral cable
 CP = Integral cable, adapter for protection tube
 C. Thread (t) M6, M8, M10 or UNF
 D. Cable length (L) Desired cable length in meters, standard 3m, max. 30m

SERIAL NO: XX XX XX XX
 Year Week Number



Technical Data

Nom. sensitivity, main axis: 10 mV/m/s² * = 100 mV/g
 Transverse sensitivity: max. 10%
 Base strain sensitivity: 0.01 m/s²/μ strain typical
 Linear frequency range: 2 Hz to 10 kHz
 Max. peak acceleration: 600 m/s²
 Settling time: 6 sec
 Bias voltage: 11 to 13 V (typical 12 V)
 Power requirements: 12 to 24 V, 2 to 5 mA
 Isolation: case isolated, > 10 Mohm
 Casing: Stainless acid proof steel, Sandvik 1802, EN:14523
 Sealing: IP66/67, max dust 5 mm according to IEC 60079-11
 Temperature range: -40° to +90° C (-40° to +194° F)
 Connection: integrated cable, shielded twisted pair, SPM 90389
 Thread (t): M6, M8, M10 or UNF 1/4"-28
 Torque limit: 10 Nm (7.4 lbf·ft)
 Weight: 115 grams (4.1 oz) excl. cable

* Individual value given on the calibration chart.

