

ACCELEROMETER TRANSDUCER TA-100



TA-100 transducers seismically detect absolute vibrations by direct mounting on the machine supports and provide an output signal directly proportional to acceleration. They are suitable for connection to portable analyzers or to fixed vibration monitoring systems, both CEMB and third-party equipment.

The TA-100 model uses a piezoelectric crystal, ensuring robustness, reliability, and excellent linearity over a wide frequency range. Its very compact dimensions allow easy installation on any type of machine.

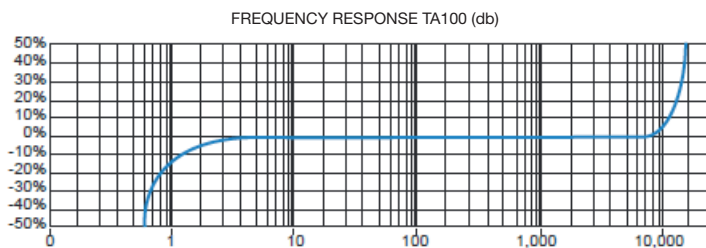
ATEX

- II 1G Ex ia IIC T4 Ga (-55°C ≤ Ta ≤ +110°C)
- II 1D Ex ia IIIC T₂₀₀ 200°C IP65 Da (-55°C ≤ Ta ≤ +110°C)
- II 1G Ex ia IIC T6 Ga (-55°C ≤ Ta ≤ +60°C)
- II 1D Ex ia IIIC T₂₀₀ 150°C IP65 Da (-55°C ≤ Ta ≤ +60°C)

TECHNICAL CHARACTERISTICS

GENERAL	Type of measurement	■ seismic piezoelectric
	Sensitivity	■ 100 mV/g
	Response in frequency	■ ± 3 dB 0.8 Hz ÷ 12 kHz ■ ± 10% 1.5 Hz ÷ 10 kHz
	Vibration direction	■ any
ELETTRICHE	Power supply	■ 0.5 ÷ 8 mA - 16 ÷ 30 Vdc
	Output polarization voltage	■ 10 - 12 Vdc
	Output impedance	■ < 200 ohm
	Outer casing insulation	■ > 10 ⁹ ohm a 500 Volts
	Settling time	■ < 2,5 sec.
AMBIENTALI	Protection against shocks	■ 5000 g pk
	Protection against external agents	■ IP68
	Operating temperature range	■ - 55 °C ÷ + 110 °C
FISCHE	Weight	■ 106 grams
	Resonance frequency	■ 23 kHz
	Outer casing material	■ AISI 316-L stainless steel
	Tightening torque	■ 2.7 - 8 Nm

TA-100



ORDER INFORMATION

TA-100 / ☐ A / ☐ B / ☐ C / ☐ D

A: EXIT

0: Top exit

1: Side exit

B: CONNECTIONS

0: CONNECTOR: MIL C-2 poles

1: Integrated PUR 2-wire shielded cable

C: CERTIFICATION

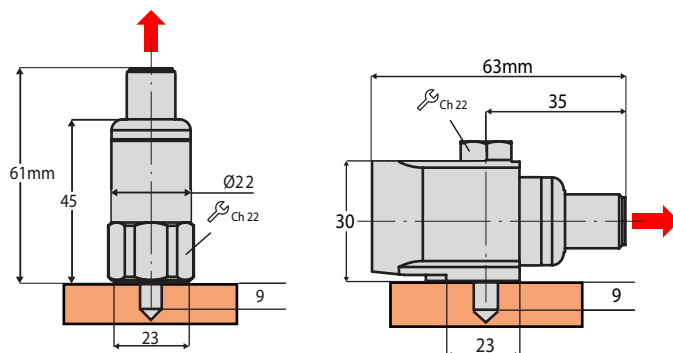
0: Safe Area

1: ATEX

D: INTEGRATED CABLE (M)

0: No Cable (for B=0)

10: 10 m



EXIT TYPE

TOP EXIT



*Nipples included in the scope of delivery: 1/4" 28 UNF; M8x1,25

SIDE EXIT



Screw included in the scope of delivery: M8x1,25

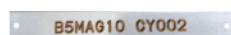
ACCESSORI OPZIONALI

Nipple codes	Thread	Reference image
440315770	1/4" - 28 UNF*	
440315760	M8 x 1.25*	
440315750	M6 x 1	
440814330	M10 x 1.5	
440A008780	M10 x 1	
440A042669	M8 x 1	



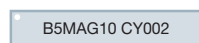
**2 PINS STRAIGHT
(STANDARD)**

597023104



STAINLESS STEEL TAG

980710835



PLASTIC TAG

040STR000

Screw codes	Thread	Reference image
92A001459	M6 x 1	
92A001463	M8 x 1.25	
92A001460	1/4" - 28 UNF	



**SHIELDED CABLE 2X1
STANDARD**

CBL / S / 0 / XX (length in meters)

80419-P



SHIELDED CABLE ARMoured EFTE

CBL / E / 0 / XX (length in meters)

87SEA7952



**SHIELDED CABLE 2X1
WITH METAL JACKET PVC COVERED**

CBL / A / 0 / XX (length in meters)

95743-P