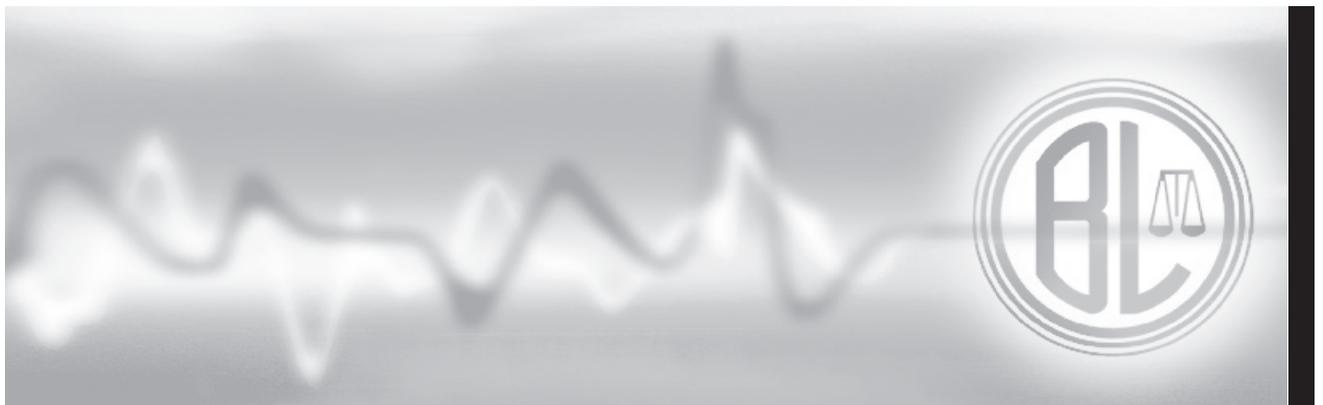


Vibration equipment division

SEISMIC VELOCITY TRANSDUCER TV22

USE AND MAINTENANCE INSTRUCTION MANUAL



www.cemb.com

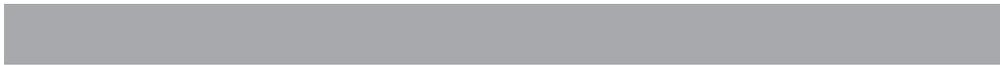
CEMB S.p.A.
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23826 MANDELLO del LARIO (Lc) Italy

**Translation of the original instructions*



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1. FUNCTIONING



The model TV22 seismic transducer measure the absolute vibration of the machine by the securely mounted to a flat surface. It supplies an output signal directly proportional to the speed of vibration of the point to which it is fastened. Such signal should subsequently be processed by one of the measuring channel of a serial "T" processing unit.

2. OPERATING PRINCIPLE

A voltage proportional to the speed of vibration, is induced in a coil suspended seismically to the transducer body and immersed in a field generated by a permanent magnet rigidly fastened to the transducer body.

3. TECHNICAL SPECIFICATIONS

Sensor type	PZT piezoelectrical velocimeter
Measure type	Seismic (absolute vibrations)
Dynamic range	±1270 mm/s-pk ± 50 in/sec-pk
Frequency response	: ± 3 db 1,5÷12000 Hz 90÷720.000 CPM
Vibrations direction	any
Sensitivity (± 10%)	3,94 mV/mm/s 100 mV/in/sec
Resonant frequency	25000 Hz 1.500.000 CPM
Max. shock protection	5000 g pk
Setting time	> 4" > 4 sec
Power supply	2÷10 mA - 18÷30 Vdc
Max. output impedance	< 100 ohm
Electrical case isolation	>10 (8) Ohm
Electromagnetic sensitivity	Certified CE
Temperature range	-50°C ÷ +121°C -58°F÷+250°F
Case material	stainless steel 316L
Mounting hole	standard = ¼"-28UNF-2B (or to be specify with the order)
Weigth	90 grm 3.2 oz
External protection	IP65 EN60529/10.91 standards
Connection	2 pin MIL-C-5015 serial 3106/10, included connector
Maintenance	none
Drawings enclosed	73920P= overall dimensions, layout and electrical connections

4. ASSEMBLY

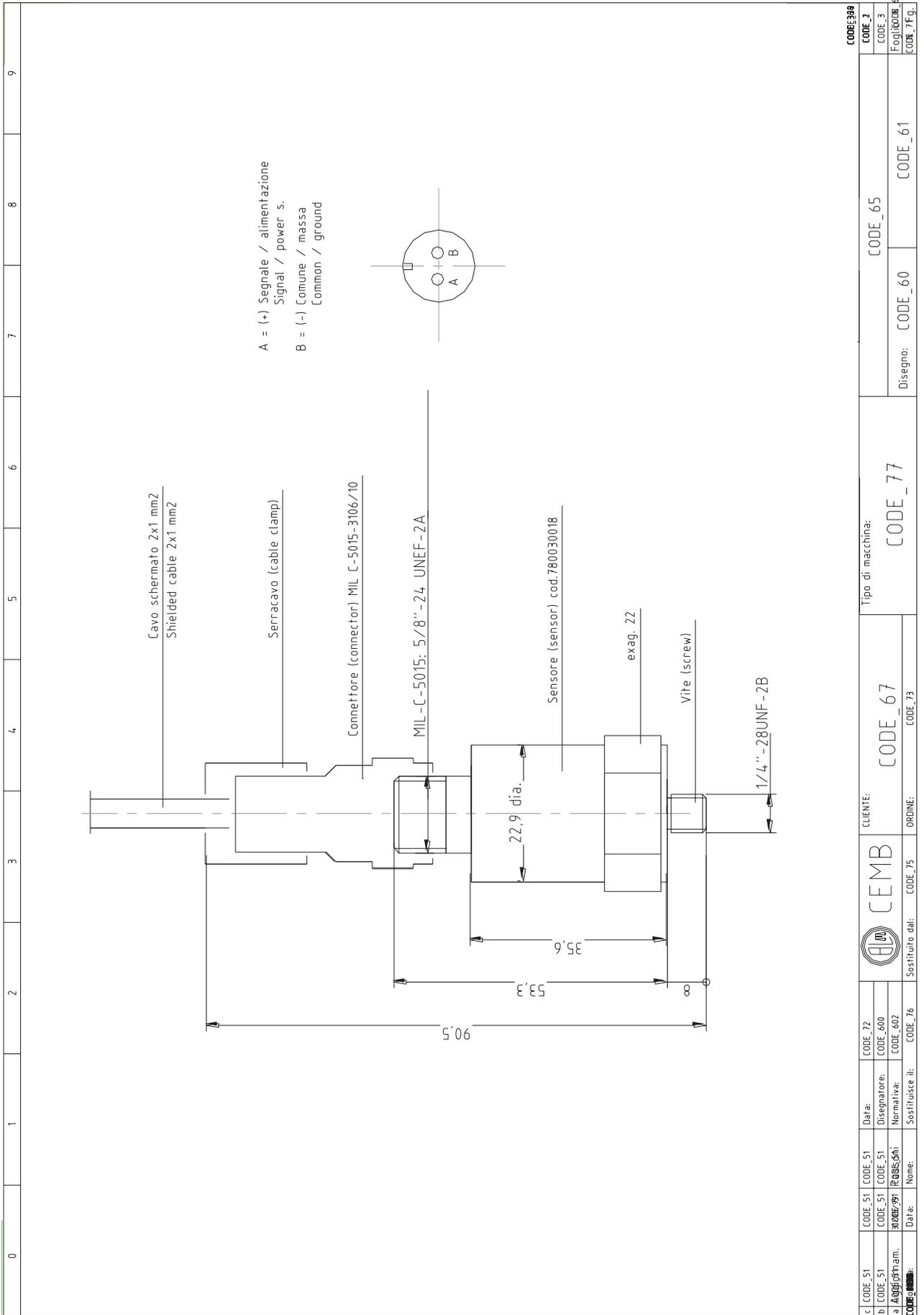
Prepare a smooth, flat mounting surface and then drill and tap a mounting hole in the center of this area. Wipe clean the mounting surface and spread on a light film of grease, oil or similarcoupling fluid prior to installation.



AVOID GIVING VIOLENT SHOCKS TO THE BODY OF THE TRANSDUCER; THE TIGHTENING TORQUE SHOULD BE 2.7 ÷ 6.8 NM (2 TO 5 LBS.)



Refer to enclosed drawing nr. 73920P.



c) CODE_51 CODE_51 a) 3106/291 CODE_5111	CODE_51 CODE_51 3106/291 CODE_5111	Data: Disegnatore: Normativa: Sostituisce il:	CODE_72 CODE_600 CODE_602 CODE_76	CLIENTE: CEMB	Sostituito da: CODE_75	ORDINE: CODE_73	Tipo di macchina: CODE_77	Disegno: CODE_60 CODE_61	Disegno: CODE_65	CODE_399 CODE_3 Foglio 62 CODE_719
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