

ACCELEROMETER TRANSDUCER

TA-8 TA-28

The TA-8, TA-28 transducers seismically measure absolute machine vibrations by directly fastening the vibrating part on the supports. They provide an output signal directly proportional to the vibration of the point on which they are fastened. This signal can subsequently be processed by a measuring channel of a CEMB "T" or "N" series device.

The TA-8, TA-28 transducers exploit the piezoelectric effect, i.e. the capability of a material to provide a difference of potential when mechanically stressed. In this application, a ceramic material subjected to acceleration generates an electrical signal proportional to the stress



TECHNICAL CHARACTERISTICS	TA-8	TA-28
GENERAL		
Type of measurement	■ seismic (absolute vibration) piezoelectric	■ seismic (absolute vibration) piezoelectric
Sensitivity	■ 10 mV/g	■ 500 mV/g
Response in frequency	■ ± 3 dB 0,5 ÷ 15000 Hz ■ ± 10 % 2 ÷ 10000 Hz	■ ± 3 dB 0,5 ÷ 15000 Hz ■ ± 10 % 2 ÷ 10000 Hz
Vibration direction	■ any	■ any
Dynamic range	■ ± 500 g pk	■ ± 10 g pk
Transverse sensitivity	■ < 5 %	■ < 5 %
ELECTRICAL		
Power supply	■ 2÷10 mA - 18÷30 Vdc	■ 2÷10 mA - 18÷30 Vdc
Output polarization voltage	■ 10-14 Vdc	■ 10-14 Vdc
Output impedance	■ < 100 ohm	■ < 100 ohm
Outer casing insulation	■ > 10 ⁸ ohm	■ > 10 ⁸ ohm
Settling time	■ < 2 sec.	■ < 5 sec.
AMBIENT		
Temperature range	■ -50°C ÷ +121°C	■ -50°C ÷ +121°C
Protection against shocks	■ 5000 g pk	■ 5000 g pk
Electromagnetic sensitivity	■ CE	■ CE
Protection against external agents	■ IP68	■ IP68
PHYSICAL		
Weight	■ 90 g	■ 95 g
Resonance frequency	■ 23 kHz	■ 16 kHz
Outer casing material	■ AISI 316-L stainless steel	■ AISI 316-L stainless steel
Retaining screw threading	■ see "dimensions and threads"	■ see "dimensions and threads"
Connection	■ 2 pin MIL-C-5015 connector provided	■ 2 pin MIL-C-5015 connector provided
Tightening torque	■ da 2,7 a 6,8 Nm	■ da 2,7 a 6,8 Nm

TA-8 TA-28

INFORMATION FOR THE ORDER:

A
TA-8 /

A: RETAINING SCREW

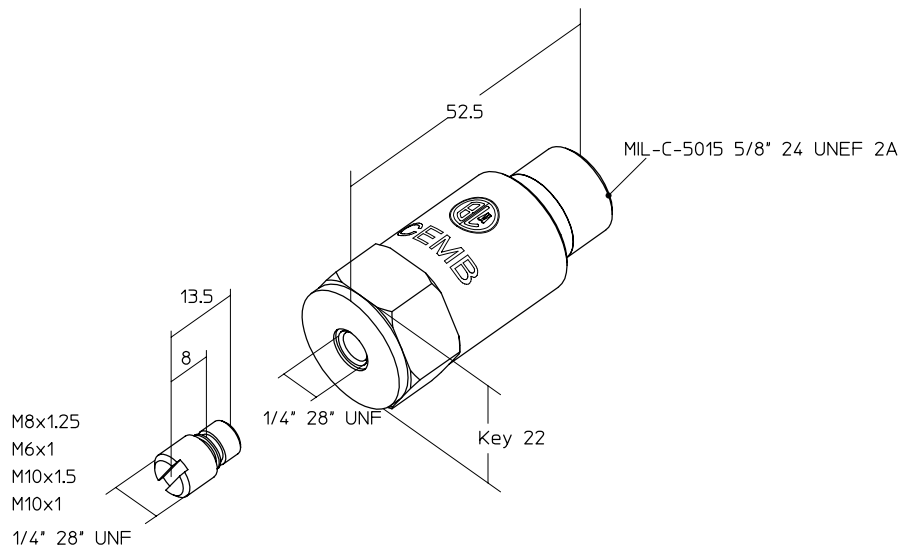
0	1/4" - 28 UNF
1	M8 X 1,25
2	M6 X 1
3	M10 X 1,5
4	M10 X 1
9	MULTI THREAD KIT (1/4"-28 UNF - M8X1.25 - M6X1 - M10X1,5)

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TA-28 /

A: RETAINING SCREW

0	1/4" - 28 UNF
1	M8 X 1,25
2	M6 X 1
3	M10 X 1,5
4	M10 X 1

DIMENSIONS AND THREADS



CABLES AND OPTIONAL ACCESSORIES

CABLES:



SHIELDED CABLE 2X1 STANDARD 80419-P
CBL / TA-28 / S / 0 / XX (length in meters)



SHIELDED CABLE ARMoured IN ETFE 87SEA7952
CBL / TA-28 / E / 0 / XX (length in meters)



SHIELDED CABLE 2X1 WITH METAL JACKET COVERED BY PVC 95743-P
CBL / TA-28 / A / 0 / XX (length in meters)

ONLY CONNECTORS:

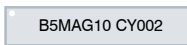


2 PINS STRAIGHT (standard) 597023104



2 PINS 90° 597023108 + 59070352

TAGS:



PLASTIC TAG 040STR000



STAINLESS STEEL TAG 980710835