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		



BALANCING MACHINES



TA-8 TA-28

INFORMATION FOR THE ORDER:

DIMENSIONS AND THREADS



A: RETAINING SCREW

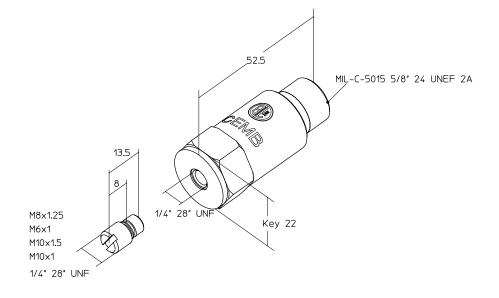
0	1/4" – 28 UNF
1	M8 X 1,25
2	M6 X 1
3	M10 X 1,5
4	M10 X 1
9	MULTI THREAD KIT (1/4"-28 UNF –
	M8X1.25 - M6X1 - M10X1,5)



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	



CABLES AND OPTIONAL ACCESSORIES

CABLES:







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





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