ACCELEROMETER TRANSDUCER

The TA-18/S 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-18/S 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	
GENERAL	
Type of measurement	seismic (absolute vibration) piezoelectric
Sensitivity	■ 100 mV/g
Response in frequency	■ ± 3 dB 0,5 ÷ 15000 Hz ■ ± 10 % 2 ÷ 10000 Hz
Vibration direction	■ any
Dynamic range	■ ± 50 g pk
Transverse sensitivity	■ < 5 %
ELECTRICAL	
Power supply	■ 2÷10 mA - 18÷30 Vdc
Output polarization voltage	■ 10-14 Vdc
Output impedance	■ < 100 ohm
Outer casing insulation	■ > 10 ⁸ ohm
Settling time	■ < 2,5 sec.
AMBIENT	
Protection against shocks	■ 5000 g pk
Protection against external agents	■ IP68
PHYSICAL	
Weight	■ 90 grammi
Resonance frequency	■ 23 kHz
Outer casing material	■ AISI 316-L stainless steel
Retaining screw threading	see "dimensions and threads"
Connection	■ MIL-C-5015 2-pin connector provided
Tightening torque	■ 2.7 to 6.8 Nm





TA-18/S

INFORMATION FOR THE ORDER:

А В

TA-18/S / ___ / ___

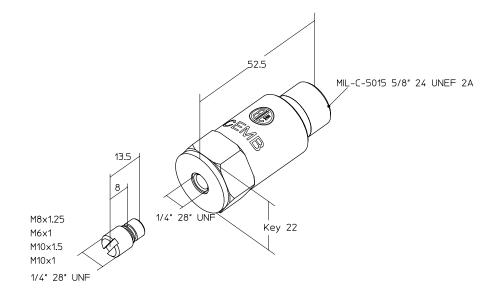
A: RETAINING SCREW

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

B: TEMPERATURE RANGE

0	STANDARD	-50°C	+121°C
1	HIGH TEMPERATURE	-50°C	+150°C

DIMENSIONS AND THREADS



CABLES AND OPTIONAL ACCESSORIES

CABLES:



SHIELDED CABLE 2X1 STANDARD C-TA-18 / S / 0 / XX (lenght in meters)

80419-P



SHIELDED CABLE ARMOURED IN ETFE 87SEA7952

C-TA-18 / E / 0 / XX (lenght in meters)



SHIELDED CABLE 2X1 WITH METAL JACKET COVERED BY PVC 95743-P

C-TA-18 / A / 0 / XX (lenght in meters)



SHIELDED CABLE ARMOURED IN ETFE **WITH SILICON BUMP**

C-TA-18 / E / 2 / XX (lenght in meters)

ONLY CONNECTORS:



2 PINS STRAIGHT (standard)

597023104



2 PINS 90°

597023108 + 59070352

TAGS:

B5MAG10 CY002

PLASTIC TAG

040STR000

B5MAG10 CY002

STAINLESS STEEL TAG

980710835



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