ACCELEROMETER TRANSDUCER TA-18/H TA-18/HD

The TA-18/H and TA-18/HD 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/H and TA-18/HD 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 -18/H TA -18/HD (high temperature) GENERAL Type of measurement seismic (absolute vibration) piezoelectric seismic (absolute vibration) piezoelectric Sensitivity 100 mV/g 100 mV/g ■ ± 3 dB 0,5 ÷ 10000 Hz ■ ± 3 dB 0,5 ÷ 11000 Hz Response in frequency ■ ± 10 % 2 ÷ 7000 Hz ■ ± 10 % 2 ÷ 3000 Hz Vibration direction any any Dynamic range ± 50 g pk ± 80 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</p> < 100 ohm</p> Outer casing insulation > 10⁸ ohm ■ > 10⁸ ohm < 2,5 sec. Settling time < 2,5 sec.</p> AMBIENT -50°C ÷ +121°C ■ -50°C ÷ +162°C Temperature range Protection against shocks 5000 g pk **5000** g pk Protection against external agents IP68 IP68 PHYSICAL Weight 🛯 145 g **1**45 g Resonance frequency 22 kHz 20 kHz Outer casing material AISI 316-L stainless steel AISI 316-L stainless steel 1/4" 28 UNF Retaining screw threading M6x1 MIL-C-5015 2-pin connector provided MIL-C-5015 2-pin connector provided Connection 2.7 to 6.8 Nm 2.7 to 6.8 Nm **Tightening torque**

BALANCING MACHINES

TA-18/H TA-18/HD

INFORMATION FOR THE ORDER:

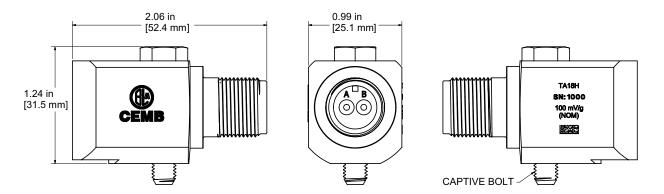
TA-18/H

TA-18/HD

retaining screw 1/4" – 28 UNF

retaining screw M6x1

DIMENSIONS AND THREADS



CABLES AND OPTIONAL ACCESSORIES

CABLES: **ONLY CONNECTORS:** SHIELDED CABLE 2X1 STANDARD 80419-P 2 PINS STRAIGHT (standard) CBL / TA-18 / S / 0 / XX (lenght in meters) 597023104 SHIELDED CABLE ARMOURED IN ETFE 87SEA7952 2 PINS 90° CBL / TA-18 / E / 0 / XX (lenght in meters) 597023108 + 59070352 SHIELDED CABLE 2X1 TAGS: WITH METAL JACKET COVERED BY PVC 95743-P CBL / TA-18 / A / 0 / XX (lenght in meters) B5MAG10 CY002 **PLASTIC TAG** 040STR000 B5MAG10 CY002 **STAINLESS STEEL TAG** 980710835



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All the data and characteristics mentioned in this catalogue are by way of example and not binding. CEMB S.p.A. reserves the right to make any changes it sees fit without prior notice.