Acceleration transducer mod. TA18S

FUNCTIONING
The TA18S transducer picks up seismically the absolute vibrations of the machine by being fitted directly to the supports of the vibrating part; it supplies an output signal directly proportional to the vibration of the point to which it is fastened. Such signal should subsequently be processed by one of the measuring channel of a CEMB serial “T” or “N” processing unit.

TECHNICAL CHARACTERISTICS
Type of measurement: seismic (absolute vibrations)
Dynamic range: ± 50 g
Frequency response:
- ± 3 dB 0.5 ÷ 15000 Hz
- ± 10 % 0.8 ÷ 6000 Hz
- ± 5 % 1 ÷ 4000 Hz
Direction of vibrations: any
Sensitivity: 100 mV/g
Transverse sensitivity: < 5 %
Reasonance frequency: 25 kHz
Protection against shocks: 5000 g pk
Power supply: 2÷20 mA - 18÷28 Vdc
Outlet impedance: < 150 ohm
Temperature range: -54°C ÷ +121°C
External casing material: stainless steel AISI 316-L
Mounting screws: standard = ¼"-28UNF-2B or to be specified along with the order among those shown on dwg 58608-P
Weight: 88 g
Protection against external: IP65 EN60529/10.91
Connection: 2 pin connector MIL-C-5015 serie 3106/10, supplied as standard

ASSEMBLY
Make a threaded hole on the support to be tested. The surface where the transducer rests must be perfectly smooth and flat. It is advised to provide a film of silicon between the resting surface and the sensor.

NOTE: avoid hitting violently the transducer housing, the closure couple must be 2,7÷6,8 Nm.

MAINTENANCE
Any.

DIMENSIONS, FIXTURE AND CONNECTIONS
As per enclosed dwg. n° 58608-P.