# velocity transducer T1-40/BF T1-40/V

## The T1-40 transducer measures absolute vibration of any rotating machine support. It supplies a voltage proportional to the vibration speed directly interfaceable with a device that can process the signal (TR-V, TRAL-V, TM1, TDSP).

The T1-40 electrodynamic transducer consists of a suspended plate coil immersed in the magnetic field of a permanent magnet. It is fastened at the point to be tested and generates a signal proportional to the vibration speed. It is used to monitor pumps, fans, motors and compressors and is available in aluminium or stainless steel complete with MIL standard connector for electrical connection.

The transducer is certified SIL2 for functional safety.



TECHNICAL CHARACTERISTICS	
Sensitivity	■ 21.2 mV/mm/s
Composition	<ul> <li>body in anodised aluminium or AISI 316L stainless steel</li> </ul>
External connections	5 or 7 pin MIL standard connector
Operating temperature range	<ul> <li>-40° C ÷ 100°C Standard</li> <li>-40° C + 170° C HT version</li> <li>IP65</li> </ul>
Type of measurement	<ul> <li>seismic (absolute vibration)</li> </ul>
Measurement direction	<ul><li>T1-40/BF horizontal</li><li>T1-40/VO vertical</li></ul>
Measurement range	■ ± 1 mm
Dynamic range	<ul> <li>T1-40/BF 3 - 2000 Hz</li> <li>T1-40/VO 10 - 2000 Hz</li> </ul>
Resonance frequency	<ul> <li>T1-40/BF 4,5 Hz</li> <li>T1-40/VO 10 Hz</li> </ul>
Transverse sensitivity	■ < 3%
Output impedance	■ 1K Ω a 25°C
Retaining screw	M8 X 1,25
Weight	■ ~ 300 gr





### T1-40/BF T1-40/V0

#### ABCDE T1-40/ \_\_ / \_\_ / 0 / \_\_ / \_\_

#### A: MEASUREMENT DIRECTION

BF	horizontal	

VO vertical	

#### **B: TEMPERATURE RANGE**

00	-40°C ÷ +100°C
ΗT	-40°C $\div$ +170°C (not available for T1-40/BF)

#### C: CERTIFICATION

0 NONE

#### D: CASING

- 0 ALUMINIUM
- STAINLESS STEEL (mandatory for zone 0) 1

#### E: FIXED CONNECTOR

0 ALUMINIUM

1	PLASTIC (	mandator	y for zone 0)	_
1		manualun		

2 7 CONTACTS

#### CABLES AND OPTIONAL ACCESSORIES

#### CABLES:



SHIELDED CABLE 2X1 STANDARD 80419-P CBL-T1-40 / S / 0 / XX (lenght in meters)

SHIELDED CABLE ARMOURED IN ETFE 87SEA7952 CBL-T1-40 / E / 0 / XX (lenght in meters)



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

CBL-T1-40 / A / 0 / XX (lenght in meters)

#### **CONNECTORS:**

100 50 10

0.5 0.2

5 PINS STRAIGHT (standard)	597053126
5 PINS 90°	597053128
5 PINS PLASTIC CASE (mandatory for zone 0)	597053127
7 PINS STRAIGHT	597073116
7 PINS 90°	597073118

#### **OTHER:**

PLASTIC TAG	040STR000
STAINLESS STEEL TAG	980710835

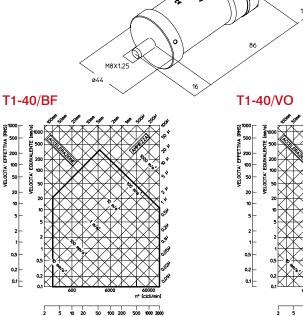


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CONNETTORE MS/mil.c.5015 SERIE 3102/16 MS/MIL.C.5015 serial 3102/16 Connector



Hz [c

Schermo (shield)

Sig.

Sig.