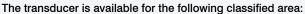
VELOCITY TRANSDUCER

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.



Ex ia IIIC T85/100/135°C Db (ATEX - ZONA 1) (E) II 1GD Ex ia IIC T6/T5/T4 Ga Ex ia IIIC T85/100/135°C Da (ATEX - ZONA 0) Ex ia IIIC T85°C/100°C/135°C Db Ex ia IIC T6/T5/T4 Gb (IECEx - ZONA 1) Ex ia IIC T6/T5/T4 Ga Ex ia IIIC T85°C/100°C/135°C Da (IECEx - ZONA 0)

The transducer is certified SIL2 for functional safety.



TECHNICAL CHARACTERISTICS

Sensitivity	■ 21.2 mV/mm/s	
Composition	■ body in anodised aluminium or AISI 316L stainless	steel
External connections	■ 5 or 7 pin MIL standard connector	
Operating temperature range	■ -40° C ÷ 100°C ■ -40° C ÷ 170°C HT ■ IP65	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Type of measurement	seismic (absolute vibration)	100 20 100 50 100 100 100 100 100 100 100 100
Measurement direction	omnidirectional	20 20 20 20 20 20 20 20 20 20 20 20 20 2
Measurement range	■ ± 1 mm	5
Dynamic range	■ 10÷1000 Hz fig. 1	1 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Resonance frequency	■ 12 Hz	0.2 - 0.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Transverse sensitivity	■ < 7%	0.1 600 60000 n* [cicil/min]
Output impedance	■ 1K Ω a 25°C	2 5 10 20 50 100 200 500 1000 2000 Hz [cicil/sec]
Retaining screw	■ M8 X 1,25	V 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Weight	■ ~ 300 gr	FIG. 1 600 6000 60000 ro* (cicti/min)











T1-40

ABCDE

T1-40/ 00 / ___ / __ / __ / __

A: MEASUREMENT DIRECTION

omnidirectional

B: TEMPERATURE RANGE

 $-40^{\circ}\text{C} \div +100^{\circ}\text{C}$

C: CERTIFICATION

NONE

2	(Ex) II 2G Ex ia IIC T6/T5/T4 Gb	(EX) II 2D Ex ia IIIC T85/100/135°C Db (ATEX - ZONA 1)
5	Ex ia IIC T6/T5/T4 Gb	Ex ia IIIC T85°C/100°C/135°C Db (IECEx - ZONA 1)
8	😥 II 1G Ex ia IIC T6/T5/T4 Ga	(EX) II 1D Ex ia IIIC T85/100/135°C Da (ATEX - ZONA 0)
В	Ex ia IIC T6/T5/T4 Ga	Ex ia IIIC T85°C/100°C/135°C Da (IECEx - ZONA 0)

D: CASING

ALUMINIUM

STAINLESS STEEL (mandatory for zone 0)

E: FIXED CONNECTOR

ALUMINIUM

PLASTIC (mandatory for zone 0)

7 CONTACTS

CABLES AND OPTIONAL ACCESSORIES

CABLES:



SHIELDED CABLE 2X1 STANDARD

53756-P CBL/T1-40 / S / 5 / XX (lenght in meters)



SHIELDED CABLE ARMOURED IN ETFE 87SEB5827

CBL/T1-40 / E / 5 / XX (lenght in meters)



SHIELDED CABLE 2X1 WITH METAL JACKET COVERED BY PVC 99025-P

CBL/T1-40 / A / 5 / XX (lenght in meters)

CONNECTORS:

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

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

103

Schermo (shield)

Sig.-

M8X1.25

OTHER:

ZENER BARRIER Z960 (for hazardous area)	800208960
PLASTIC TAG	040STR000
STAINLESS STEEL TAG	980710835

