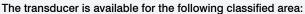
VELOCITY TRANSDUCER

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.



Ex ia IIIC T85/100/135°C Db (ATEX - ZONA 1) 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

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	500 - 1 500 -	
Type of measurement	seismic (absolute vibration)	100 B 100	
Measurement direction	omnidirectional	20 9 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Measurement range	■ ± 1 mm	5- 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Dynamic range	■ 10÷1000 Hz fig. 1	1 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Resonance frequency	■ 12 Hz	02 050 050 050 050 050 050 050 050 050 0	
Transverse sensitivity	■ < 7%	0.1 6000 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	7 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 nº (cicil/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		(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	
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



phone +39 0341 706111 +39 0341 706299 e-mail: stm@cemb.com