VIBRATION TRANSMITTER

TR-26



FUNCTION

The integrated transmitter TR-26 measures the absolute vibrations of any rotatiing machine support and it is able to interface directly in 2 wires technique (current loop 4 \div 20 mA) to an acquisition system (PLC or DCS).

GENERAL DESCRIPTION

The transmitter, secured directly on machinery, generates an electric signal (4÷20 mA) which is proportional to vibration velocity or acceleration. The transmitter is made of a stainless steel body AISI 316L with machine connection thread. The connection to the acquisition system is effected by means of a MIL-C-5015-2 poles connector or a M12 4 poles connector.

NOTE: The transmitter is available in different configuration versions and it does not need any set-up or maintenance.

TECHNICAL CHARACTERISTICS	
Composition	AISI 316L stainless steel body
Power supply	 24 Vdc (10 ÷ 35 Vdc) current loop 4 ÷ 20 mA (2 wires) Maximum load - see figure 1
External connections	 2 poles MIL-C-5015 connector (conductors max section 2,5 mm²) 4 poles M12 connector
Environmental use field	- 50°C ÷ + 120°C IP 65 EN 60529/10.91 standard
Measure type	Omnidirectional seismic (absolute vibration)
Dynamic field	• ± 18 g
Transverse sensitivity	• < 5 %
Linearity	• ± 2% - 75 Hz
Dynamic performances	±3% / 10Hz-1kHz - see figure 2-3db / 1.5Hz - 2.5kHz
Insulation	 ≥10⁸ Ω between signal and container
Application axis	• Any
Standard machine connection thread	 M8x1,25 ½"-18NPT ½"-28UNF
Maintenance	No maintenance is needed
Electrical connections	Bipolar shielded cable, conductors typical section 2x1mm ²
Parameters to be defined when ordering	Measuring fieldFixing threadCertificationConnection
Mounting torque	• 5÷10 N-m





TR-26

Figure 1

Maximum load on current loop

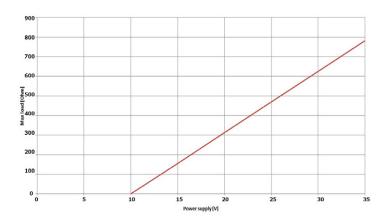
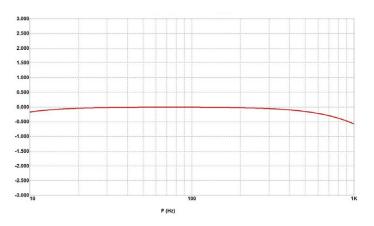


Figure 2
Frequency response [db]



ORDER INFORMATION

A: MEASURING FIELD

0	0 ÷ 10 mm/s RMS
1	0 ÷ 20 mm/s RMS
2	0 ÷ 50 mm/s RMS
3	0 ÷ 100 mm/s RMS
4	0 ÷ 1 g RMS
5	0 ÷ 5 g RMS
6	0 ÷ 10 g RMS
S	special to be defined

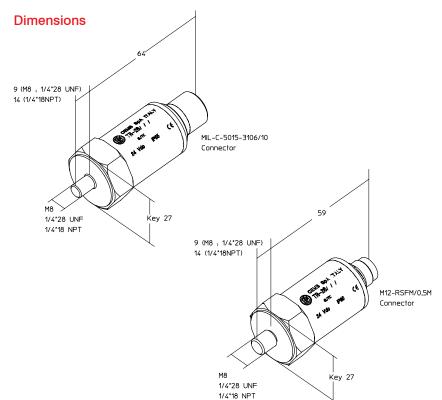
B: MACHINE CONNECTION THREAD

0	M8x1,25	
1	1/4'' – 18NPT	
2	1/4'' – 28UNF	

C: CERTIFICATION

0	None
2	ATEX II 2 G Ex ia IIC T6 or T5 or T4 (Zone 1)
D:	CONNECTIONS

0	MIL-C-5015 2 poles
1	M12 4 poles (only for NON ATEX version)



PURCHASE ORDER EXAMPLE

TR - 26 / 1 / 0 / 0 / 0

1 = measuring field 0÷20 mm/s RMS

0 = machine connection thread M8x1,25

0 = no certification

0 = connection MIL-C-5015 2 poles



Via Risorgimento, 9 23826 MANDELLO DEL LARIO (LC) Italy www.cemb.com

