

# VIBRATION TRANSMITTER

# TR-26



The integrated transmitter TR-26 measures the absolute vibrations of any rotating machine support and it is able to interface directly in 2 wires technique (current loop 4 ÷ 20 mA) to an acquisition system (PLC or DCS). The transmitter, secured directly on machinery, generates an electric signal (4÷20 mA) which is proportional respectively to vibration velocity or acceleration. The transmitter is made of an AISI 316L body with machine connection thread; the connection to the acquisition system is effected by means of a MIL-C-5015-2 poles connector.  
NOTE: The transmitter is available in different configuration versions and does not need any set-up or maintenance.

The transmitter is certified for application in classified area as

ATEX:

- II 2G Ex ia IIC T6/T5/T4 Gb
- II 2D Ex ia IIIC T85°C/T100°C/135°C Db
- II 3G Ex ec IIC T6/T5/T4 Gc
- II 3D Ex tc IIIC T85°C/T100°C/135°C Dc

IECEx:

- Ex ia IIC T6/T5/T4 Gb
- Ex ia IIIC T85°C/T100°C/135°C Db
- Ex ec IIC T6/T5/T4 Gc
- Ex tc IIIC T85°C/T100°C/135°C Dc

The transmitter is certificate SIL 2 for functional safety.

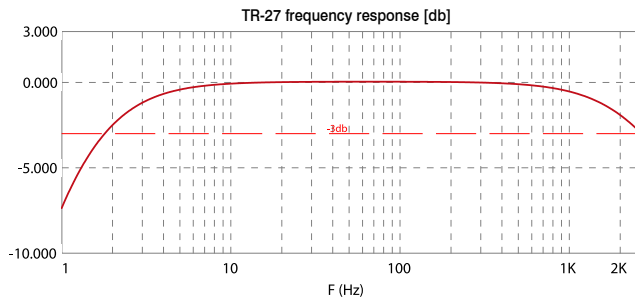


## TECHNICAL CHARACTERISTICS

Composition	<ul style="list-style-type: none"> <li>■ AISI 316L stainless steel body</li> </ul>
Power supply	<ul style="list-style-type: none"> <li>■ 24 Vdc (10 ÷ 35 Vdc) current loop 4 ÷ 20 mA (2 wires)</li> </ul>
External connections	<ul style="list-style-type: none"> <li>■ MIL-C-5015 2 poles connector (conductors max section 2,5 mm<sup>2</sup>)</li> <li>■ 4 poles M12 connector</li> </ul>
Environmental	<ul style="list-style-type: none"> <li>■ - 60°C ÷ + 120°C</li> <li>■ IP 65 EN 60529/10.91 standards</li> </ul>
Measure type	<ul style="list-style-type: none"> <li>■ omnidirectional seismic (absolute vibration)</li> </ul>
Application axis	<ul style="list-style-type: none"> <li>■ any</li> </ul>
Dynamic field	<ul style="list-style-type: none"> <li>■ ± 18 g</li> </ul>
Transverse sensitivity	<ul style="list-style-type: none"> <li>■ &lt; 5 %</li> </ul>
Linearity	<ul style="list-style-type: none"> <li>■ ± 2% - 75 Hz</li> </ul>
Dynamic performances	<ul style="list-style-type: none"> <li>■ ±3% / 10Hz-1kHz</li> <li>■ -3db / 1,5Hz - 2kHz</li> </ul>
Insulation	<ul style="list-style-type: none"> <li>■ ≥ 10<sup>8</sup> Ω between signal and container</li> </ul>
Standard machine connection thread	<ul style="list-style-type: none"> <li>■ see tables "MACHINE CONNECTION THREAD"</li> </ul>
Maintenance	<ul style="list-style-type: none"> <li>■ no maintenance is needed</li> </ul>
Electrical connections	<ul style="list-style-type: none"> <li>■ bipolar shielded cable</li> </ul>
Mounting torque	<ul style="list-style-type: none"> <li>■ 5÷ 10 N-m</li> </ul>



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## ORDER INFORMATION

TR - 26 /  /  /  /

### A: MEASURING FIELD [RMS]

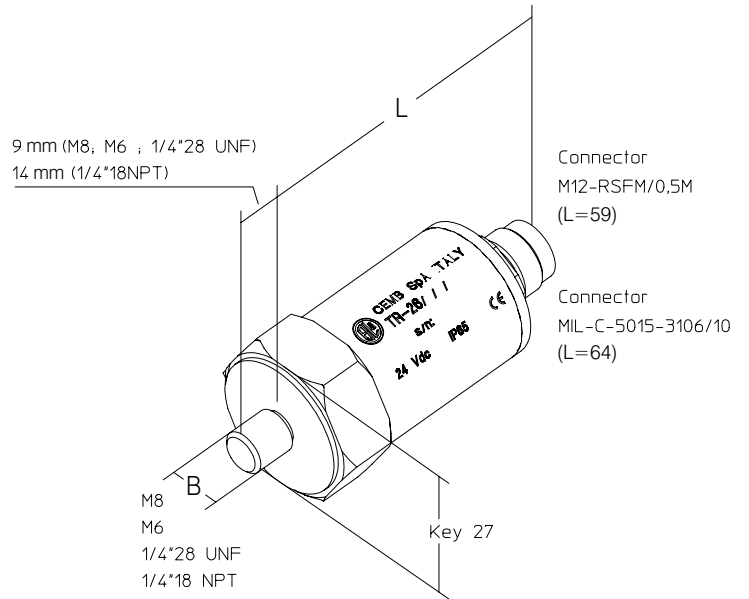
0	0 ÷ 10 mm/s
1	0 ÷ 20 mm/s
2	0 ÷ 50 mm/s
3	0 ÷ 100 mm/s
4	0 ÷ 1 g
5	0 ÷ 5 g
6	0 ÷ 10 g
7	0 ÷ 25,4 mm/s (0 ÷ 1 in/s)
8	0 ÷ 12,7 mm/s (0 ÷ 0,5 in/s)
S	special to be defined

### B: MACHINE CONNECTION THREAD

0	M8x1,25
1	1/4" - 18NPT
2	1/4" - 28UNF
3	M6x1 (only for safe area)

### C: CERTIFICATIONS

0	Safe area
2	II 2G Ex ia IIC T6/T5/T4 Gb
	II 2D Ex ia IIIC T85°C/T100°C/135°C Db
	II 3G Ex ec IIC T6/T5/T4 Gc
	II 3D Ex tc IIIC T85°C/T100°C/135°C Dc
5	Ex ia IIC T6/T5/T4 Gb
	Ex ia IIIC T85°C/T100°C/135°C Db
	Ex ec IIC T6/T5/T4 Gc
	Ex tc IIIC T85°C/T100°C/135°C Dc



### CONNECTION

0	MIL-C-5015 2 pins
1	M12 4 pins (only for safe area)

## CABLES AND OPTIONAL ACCESSORIES



**SHIELDED CABLE 2X1 STANDARD** 80419-P  
CBL/TR-26 / S / 0 / XX (length in meters)



**SHIELDED CABLE ARMoured IN ETFE** 87SEA7952  
CBL/TR-26 / E / 0 / XX (length in meters)



**SHIELDED CABLE 2X1 WITH METAL JACKET COVERED BY PVC** 95743-P  
CBL/TR-26 / A / 0 / XX (length in meters)



**2 PINS STRAIGHT (standard)** 597023104



**2 PINS 90°** 597023108 + 590703052



**4 PINS M12** 593121013

**ZENER BARRIER Z787 (for hazardous area)** 800208787

**B5MAG10 CY002 PLASTIC TAG** 040STR000

**B5MAG10 CY002 STAINLESS STEEL TAG** 980710835



**CEMB**  
BALANCING MACHINES