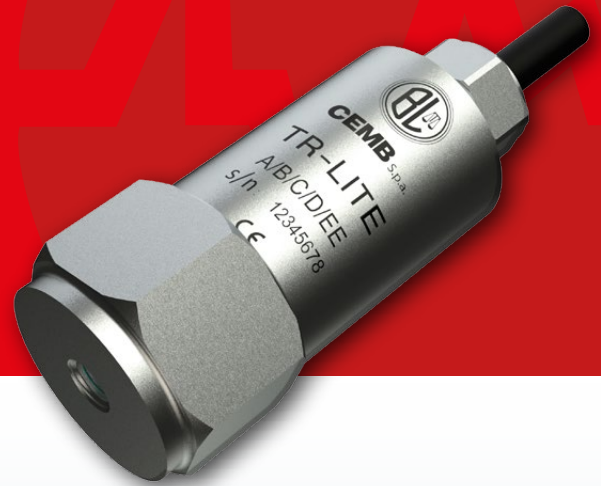


# VIBRATION TRANSMITTER TR-LITE



The integrated transmitter TR-LITE 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. The transmitter is made of an AISI 316L body with machine connection thread. The connection to the acquisition system is effected by a connector or by a precabled cable.

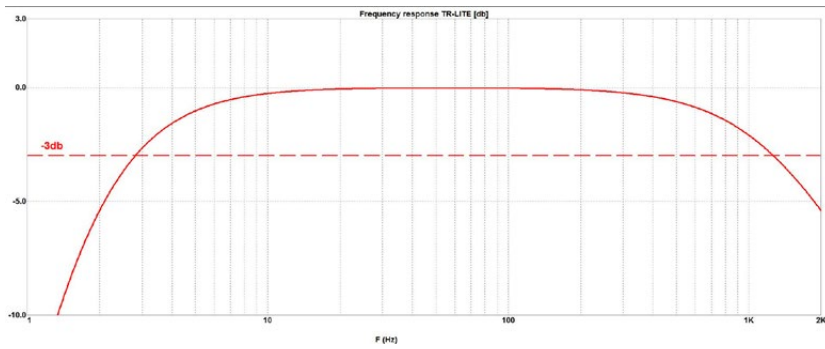
The transmitter is available in different configuration versions and does not need any set-up or maintenance.



## TECHNICAL CHARACTERISTICS

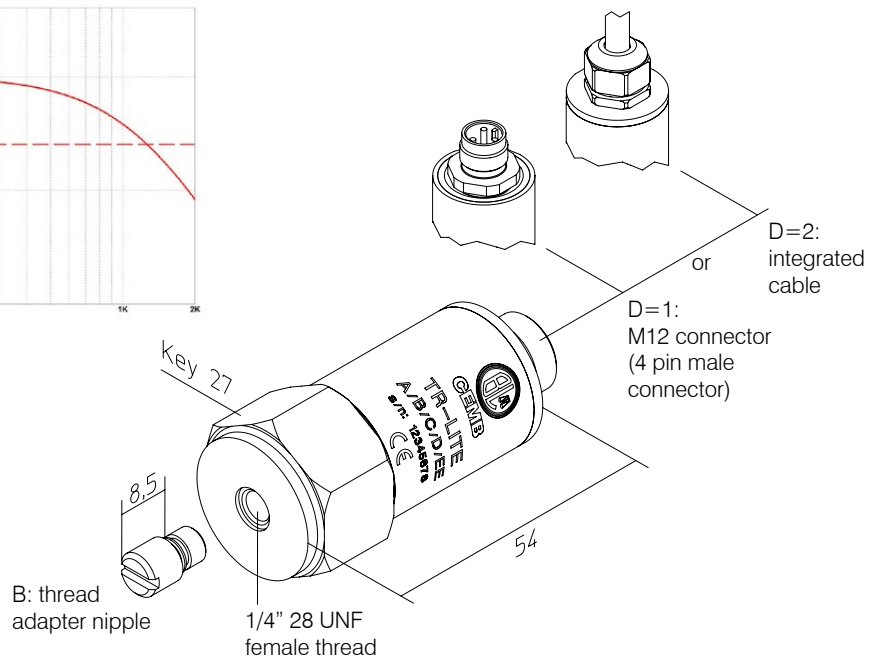
Composition	<ul style="list-style-type: none"> <li>■ AISI 316L stainless steel body</li> </ul>
Power supply	<ul style="list-style-type: none"> <li>■ 24 Vdc (10 ÷ 35 Vdc) current loop 4 ÷ 20 mA (2 wires)</li> </ul>
External connections	<ul style="list-style-type: none"> <li>■ 4 poles M12 connector</li> <li>■ integrated cable</li> </ul>
Environmental	<ul style="list-style-type: none"> <li>■ -45°C +105°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>■ ± 5% - 75 Hz</li> </ul>
Dynamic performances	<ul style="list-style-type: none"> <li>■ ±10% / 10Hz - 1kHz</li> <li>■ -3db / 3Hz - 1,5kHz</li> </ul>
Insulation	<ul style="list-style-type: none"> <li>■ ≥10<sup>9</sup> Ω between signal and container</li> </ul>
Standard machine connection thread	<ul style="list-style-type: none"> <li>■ see tables</li> <li>■ "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>

# TR-LITE



## ORDER INFORMATION

TR - LITE /  /  /  /  /



### A: MEASURING FIELD [RMS]

0	0 ÷ 10 mm/s
1	0 ÷ 20 mm/s
2	0 ÷ 50 mm/s
7	0 ÷ 25,4 mm/s (0 ÷ 1 in/s)
8	0 ÷ 12,7 mm/s (0 ÷ 0,5 in/s)

### B: MACHINE CONNECTION THREAD

0	1/4" - 28UNF
1	M8x1,25
2	M6x1
3	M10x1,5
4	M10x1
5	M8x1

### D: CONNECTION

1	CONNECTOR: M12 4 pins
2	CABLE: INTEGRATED SHIELDED 2X1 (Lenght to be defined in point "E")

### C: OUTPUT

0	4 ÷ 20mA power loop
---	---------------------

### E: CABLE LENGHT (m)

XX	3 ÷ 20 (5m standard)
----	----------------------

## CABLES AND OPTIONAL ACCESSORIES

Nipple code	Thread	Reference picture
440315770	1/4" - 28 UNF	
440315760	M8 x 1.25	
440315750	M6 x 1	
440814330	M10 x 1.5	
440A008780	M10 x 1	
440A042669	M8 x 1	

B5MAG10 CY002	<b>PLASTIC TAG</b>	040STR000
B5MAG10 CY002	<b>STAINLESS STEEL TAG</b>	980710835

### Cables with integrated M12 5 poles female connector (for connectors only, not for connection D=2):

Code	Lenght	Pinout description
65800B050	5mt PUR Black Diameter: 5mm	<p>1 BROWN (SIG +) 2 WHITE (SIG -) 3 4 5</p>
65800B150	10mt PUR Black Diameter: 5mm	