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 certificate SIL 2 for functional safety.

The transmitter is certified for application in classified area as

EX II 2G Ex ia IIC T6/T5/T4 Gb

II 3G Ex ec IIC T6/T5/T4 Gc

IECEx:

Ex ia IIC T6/T5/T4 Gb Ex ec IIC T6/T5/T4 Gc

CSA/UL HazLoc:

AEx ia IIIC T85°C...135°C Db

Class 1 Division 1 Groups A,B,C,D T6...T4 Class 2 Division 1 Groups E, F, G T85°C...135°C Class III, Division 1, T85°C...135°C Ex ia IIC T6...T4 Gb Ex ia IIIC T85°C...135°C Db AEx ia IIC T6...T4 Gb

Class 1 Division 2 Groups A,B,C,D T6...T4 Class 2 Division 2 Groups E, F, G T85°C...135°C Class III, Division 2, T85°C...135°C Ex ec IIC T6...T4 Gc Ex tc IIIC T85°C...135°C Dc AEx ec IIC T6...T4 Gc

AEx tc IIIC T85°C...135°C Dc



TECHNICAL CHARACTERISTICS

Com	position
COIII	position

Power supply

External connections

Environmental

Measure type

Application axis

Dynamic field

Transverse sensitivity

Linearity

Dynamic performances

Insulation

Standard machine connection thread

Maintenance

Electrical connections

Mounting torque

AISI 316L stainless steel body

■ 24 Vdc (10 ÷ 35 Vdc) current loop 4 ÷ 20 mA (2 wires)

■ MIL-C-5015 2 poles connector (conductors max section 2,5 mm²)

4 poles M12 connector

■ - 60°C ÷ + 120°C

■ IP 65 EN 60529/10.91 standards

omnidirectional seismic (absolute vibration)

any

■ ± 18 g

< 5 %

■ ± 2% - 75 Hz

■ ±3% / 10Hz-1kHz

-3db / 1,5Hz - 2kHz

■ ≥10⁸ Ω between signal and container

"MACHINE CONNECTION THREAD"

no maintenance is needed

bipolar shielded cable

■ 5÷10 N-m









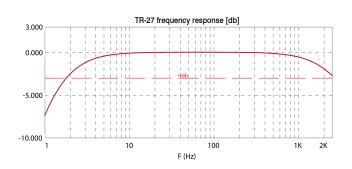


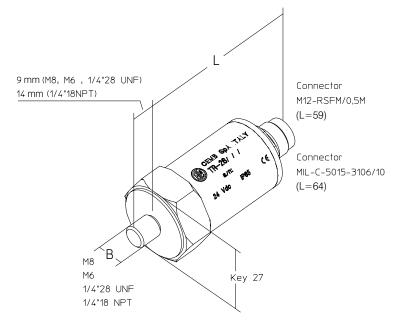






TR-26





ORDER INFORMATION

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	$0 \div 25,4 \text{ mm/s } (0 \div 1 \text{ in/s})$
8	$0 \div 12,7 \text{ mm/s } (0 \div 0,5 \text{ in/s})$
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	€ x	ATEX
4		CSA/UL HazLoc
5		IECEx

80419-P

D: CONNECTION

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

CABLES AND OPTIONAL ACCESSORIES



SHIELDED CABLE 2X1 STANDARD

CBL/TR-26 / S / 0 / XX (lenght in meters)



SHIELDED CABLE ARMOURED IN ETFE 87SEA7952 CBL/TR-26 / E / 0 / XX (lenght in meters)



SHIELDED CABLE 2X1

WITH METAL JACKET COVERED BY PVC 95743-P CBL/TR-26 / A / 0 / XX (lenght in meters)



2 PINS STRAIGHT (standard)

597023104



2 PINS 90°

597023108 + 590703052



4 PINS M12

593121013

Zener Barrier z787 ((for hazardous area)
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800208787

B5MAG10 CY002

PLASTIC TAG

040STR000

B5MAG10 CY002

STAINLESS STEEL TAG

980710835



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