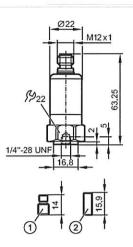




VIBRATION TRANSMITTER



Michael J. Trask P.O. Box 1778 (29652-1778) 414 West Poinsett Street Greer, SC 29650 864-848-3993 FX: 864-848-9569 www.traskinst.com



1: Threaded adapter 1/4"-28 UNF / M8 x 1.25 mm 2: Threaded adapter 1/4"-28 UNF tightening torque 8 Nm

LISTED				
Product characteristics				
Vibration transmitter				
VTV				
Connection via M12 connector				
Vibration transmitter to ISO 10816				
Measuring range RMS: 050 mm/s				
Analogue output 420 mA				
2-wire connection technol	ogy			
Application				
Application		Vibration transmitter Vrms to ISO 10816		
Electrical data				
Operating voltage	[V]	9.632 DC		
Protection class		Ш		
Inputs / outputs				
Inputs / outputs total		1		
Outputs				
analogue				
current output	[mA]	420		
Max. load	[Ω]	max. (Ub - 9.6 V) x 50; 720 at Ub = 24 V		
Measuring / setting rang	ge			
Measuring range	[mm/s]	050 RMS		
Frequency range	[Hz]	101000		
Accuracy / deviations				
Accuracy [% of the final value]		< ± 3		
Repeatability		< 0.5 %		
Linearity		0.25 %		
Environment				
Ambient temperature	[°C]	-30125		
Protection	IP 67 / IP 68 / IP 69K			

efectoreod

VTV121

VIBRATION TRANSMITTER



Diagnostic systems

	EN 01000 1 2 EOD		
	EN 61000-4-2 ESD: EN 61000-4-3 HF radiated: EN 61000-4-4 Burst: EN 61000-4-5 Surge: EN 61000-4-6 HF conducted:	4 kV CD / 8 kV AD 10 V/m 2 kV 1 kV 10 V	
	400 g		
[Years]	865		
	Microelectromechanical system (MEMS)		
axes	1		
	stainless steel 316L / 1.4404		
	set screw		
[kg]	0.122		
	M12 connector		
2 3 4			
[piece]		1	
	axes [kg]	EN 61000-4-4 Burst: EN 61000-4-5 Surge: EN 61000-4-6 HF conducted: [Years] Microelectromech: stainless ste [kg] M12 of M12 of M12 of $M12$ of M12 of $M12$ o	



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ifm electronic



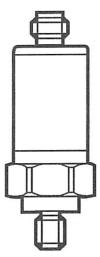
CE

Operating instructions Vibration transmitter

efectoreod VTV121 UK



Michael J. Trask P.O. Box 1778 (29652-1778) 414 West Poinsett Street Greer, SC 29650 864-848-3993 FX: 864-848-9569 www.traskinst.com



Symbols used



Instruction

Important note

Non-compliance can result in malfunctions or interference.

1 Safety instructions

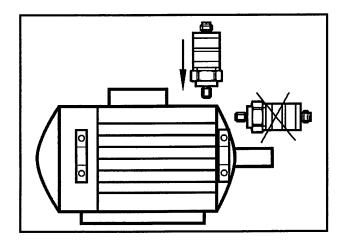
- Please read the product description prior to set-up of the unit. Ensure that the product is suitable for your application without any restrictions.
- The unit conforms to the relevant regulations and EC directives.
- Improper or non-intended use may lead to malfunctions of the unit or to unwanted effects in your application.
- That is why installation, electrical connection, set-up, operation and maintenance of the unit must only be carried out by qualified personnel authorised by the machine operator.

2 Functions and features

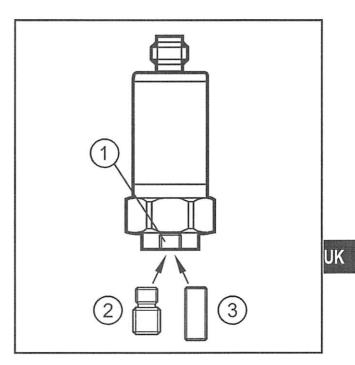
The vibration transmitter detects the vibration in the system (measured / evaluated physical unit = vibration velocity). This is converted into an analogue signal at the current output.

3 Installation

- Mount only in a thick housing wall (e.g. transport thread).
- Ensure that the signal direction is correct.
- Ensure a safe vibration transmission and allow no elastic intermediate layers.



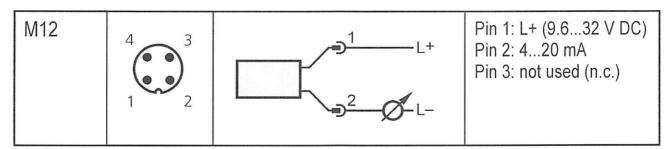
- Select either the ¼"-28 UNF / M8 (2) or the ¼"-28 UNF (3) threaded adapter and insert into the unit (1). Both adapters are supplied.
- Tighten using a 3 mm Allen key. Tightening torque 8 Nm.
- Drill and tap a hole at the mounting location:
 - M8 hole / depth min. 10 mm
 - or 1/4" UNF hole / depth min. 13 mm.



▶ Tighten the sensor with a tightening torque of 8 Nm.

4 Electrical connection

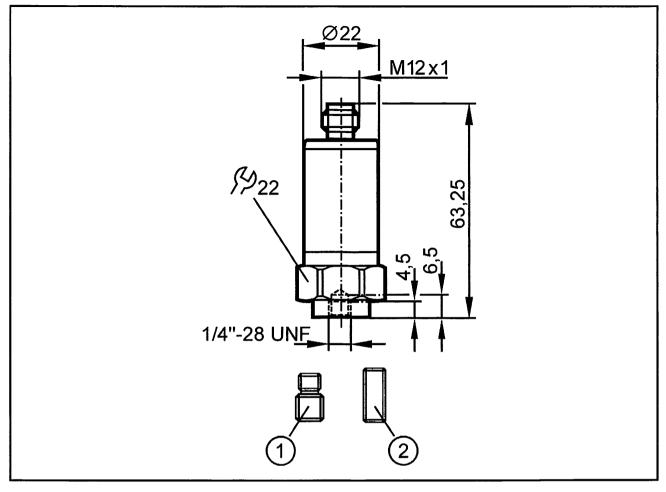
The unit must be connected by a qualified electrician. The national and international regulations for the installation of electrical equipment must be adhered to.



4.1 Measuring range

V _{eff}	mm/s	050
l _{out}	mA	420
Frequency range	Hz	101000

5 Scale drawing



1: threaded adapter 1/4"-28 UNF / M8

2: threaded adapter 1/4"-28 UNF tightening torgue 8 Nm

6 Maintenance, repair, disposal

The operation of the unit is maintenance-free. It is not possible to repair the unit. After use dispose of the unit in an environmentally friendly way in accordance with the applicable national regulations.

7 Technical data

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Technical data and further information at www.ifm.com \rightarrow Select your country \rightarrow Data sheet search
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