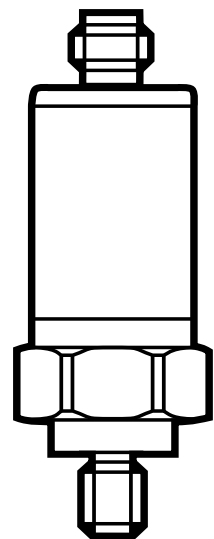




Operating instructions
Vibration transmitter
VTV122

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11417257/00 10/2021



Symbols used

► Instruction



Important note

Non-compliance can result in malfunctions or interference.

1 Safety instructions

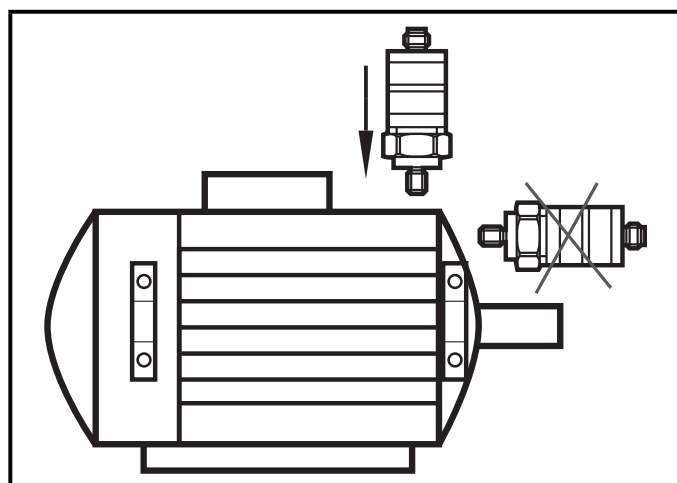
- Please read the product description prior to set-up of the unit. Ensure that the product is suitable for your application without any restrictions.
- The unit conforms to the relevant regulations and EC directives.
- Improper or non-intended use may lead to malfunctions of the unit or to unwanted effects 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

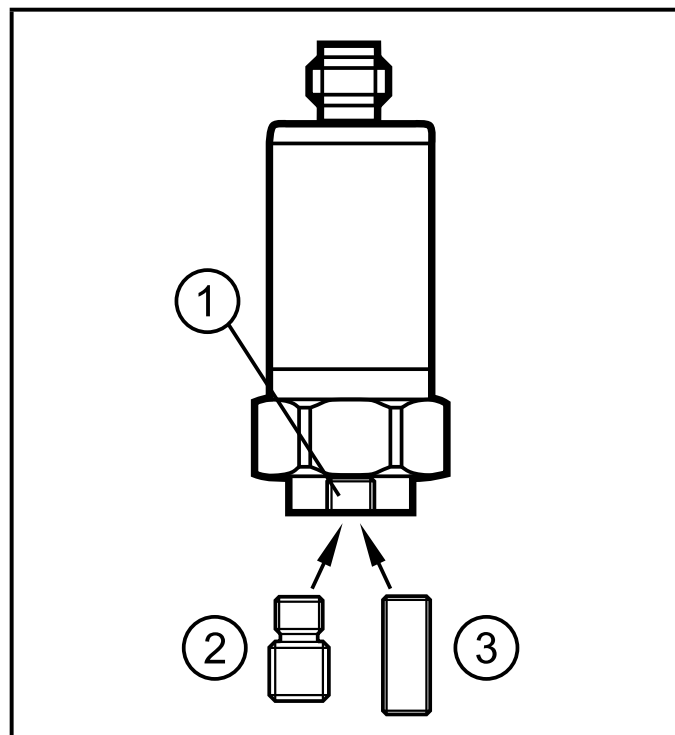
The vibration transmitter detects the vibration in the system (measured / evaluated physical unit = vibration velocity). This is converted into an analogue signal at the current output.

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 1/4"-28 UNF / M8 (2) or the 1/4"-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.



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- ▶ 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.

M12			Pin 1: L+ (9.6...32 V DC) Pin 2: 4...20 mA
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4.1 Measuring range

V_{eff}	mm/s	0...25
I_{out}	mA	4...20
Response delay	s	0,5
Frequency range	Hz	10...1000

Technical drawing of a 1/4 inch 28 UNF female adapter. The drawing shows a side view of the component with the following dimensions and features:

- Top thread: $\text{M12} \times 1$
- Top diameter: $\text{Ø}22$
- Bottom thread: $1/4''\text{-}28 \text{ UNF}$
- Bottom diameter: $\text{Ø}17$
- Overall diameter: $\text{Ø}24,5$
- Overall height: $63,55$
- Height from bottom thread to top of main body: $49,6$
- Height from bottom thread to top of main body (excluding top flange): $4,5$
- Height from bottom thread to top of main body (excluding top flange and top flange): 2
- Height from bottom thread to top of main body (excluding top flange and top flange): 14
- Callout 1: Points to the top flange.
- Callout 2: Points to the bottom flange.

- 4