

General Purpose Vibration Transducers VTI40, VTI40-01, VTI40-02

Destination:

- Measuring of vibration and shock acceleration in portative diagnostic systems and during laboratory studies.

Features:

- Piezoelement operation shear circuit.
- Combination of high axial sensitivity and self-resonant frequency.
- Strong structure and hermetically sealed body.
- Stability of characteristics and operational reliability.
- Can be used for the modal analysis.



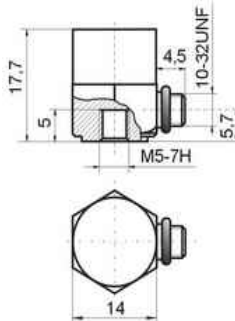
Parameter	Unit	VTI 40 ^{*3}	VTI40-01 ^{*3}	VTI 40-02 ^{*3}
Axial sensitivity ($\pm 20\%$).....	pC/g ^{*1}		20	
Relative transverse sensitivity.....	%		< 5	
Amplitude range.....	g ^{*1}		± 5000	
Max. shock limit (peak value).....	g ^{*1}		± 10000	
Operating temperature range.....	° C		-60...+150	
Frequency range (ripple ± 1 dB).....	Hz		0.5...10000	
Self-resonant frequency in attached condition.....	kHz		> 35	
Strain sensitivity.....	g • m/ μ m		< 0.025	
Capacitance.....	pF		600...800	
Insulation resistance in normal conditions.....	MOhm		> 10000	
Design.....	-		Shear	
Bottom insulation.....	-		no	
Housing material.....	-		st./steel (titanium alloy) ^{*2}	
Weight (without connector and cable).....	gram		14 (12) cable VTIK04, stud VTIH0105	
Supplied accessories.....	-			

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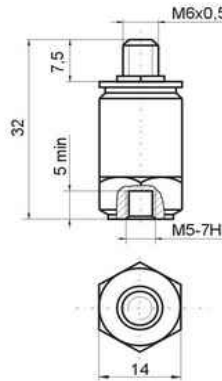
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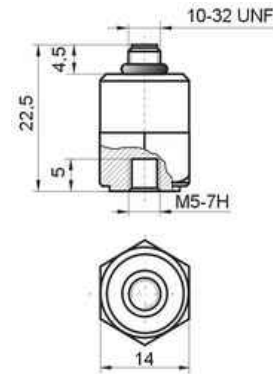
General view
of
VTI40



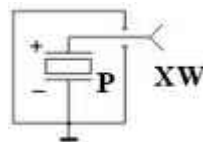
General view
of
VTI40-01



General view of
VTI40-02



The typical electrical circuit of
VTI40, VTI40-01, VTI40-02



Additional order accessories:

- calibrators VTIT01m (VTIT01m-01), VTIT02;
- charge amplifiers VTI5000, VTIQ02, VTIQ05;
- measuring amplifiers VTI5100, VTI5200;
- adapter box VTIG01 (in set with charge amplifier VTI5000);
- cables VTIK01, VTIK02, VTIK03, VTIK04, VTIK05, VTIK07, VTIK08, VTIK09, VTIK10, VTIK11;
- connector adapters VTIR01, VTIR04;
- probe tip VTIN01;
- wax for mounting VTIW01;
- magnet mounting bases VTIM01, VTIM03, VTIM04, VTIM05, VTIM08;
- stud VTIH0805;
- insulating stud VTIH1005.

*1 - $1g = 9.807 \text{ m} \cdot \text{s}^{-2}$ or $10 \text{ m} \cdot \text{s}^{-2} = 1.02 \text{ g}$;

*2 - to be determined when making out an order;

*3 - has been entered in State list of measuring means.

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