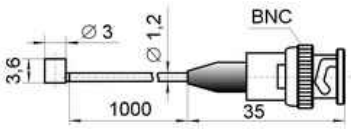
Miniature Vibration Transducers with Built-In Electronics NTIP2019,NTIP2030,NTIP2031

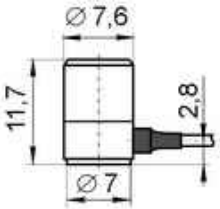


Parameter	Unit	NTIP2019	NTIP2030	NTIP2031
Axial sensitivity (± 10 %)	mV/g[*1]	0.5	3	3
Relative transverse sensitivity	%	< 5	< 3	< 3
Amplitude range	g[*1]	±7000	±1500	±1500
Max. shock limit (peak value)	g[*1]	±10000	±3000	±3000
Operating temperature range	° C	-40…+125	-40…+125	-40…+125
Frequency range (ripple±1dB)	Hz	5…22000	0.5…20000	0.5…22000
Self-resonant frequency in attached condition	kHz	> 100	> 60	> 60
Noise level, RMS (1 Hz … 10 kHz)	g[*1]	< 0.005	< 0.002	< 0.002
Output resistance	Ohm	< 500	< 500	< 500
Voltage power	V	+(15…30)	+(15…30)	+(15…30)
Current power	mA	2…20	2…20	2…20
Constant output voltage level	V	8…11	8…11	8…11
Design	-	Shear	Shear	Shear
Bottom insulation	-	no	yes	no
Built-in cable length	m	1[*2]	2[*2]	2[*2]
Connector type	-	BNC	BNC	BNC
Housing material	-	titanium alloy	titanium alloy	titanium alloy
Weight (without connector and cable)	gram	0.18	1.6	1.6

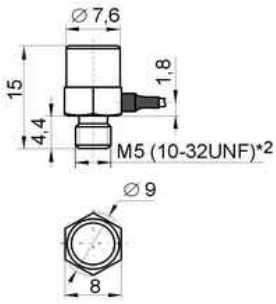
General view of NTIP2019

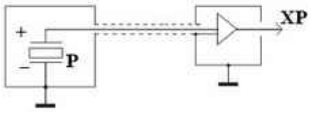
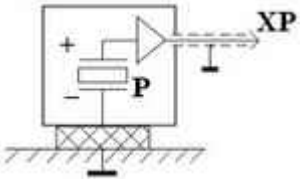
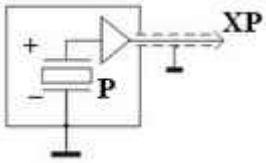


General view of NTIP2030



General view of NTIP2031



Electrical circuit of VTI2019	Electrical circuit of VTI2030	Electrical circuit of VTI2031
		

The circuit of connection to a data-acquisition equipment