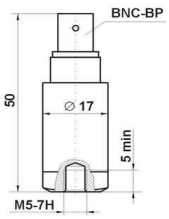
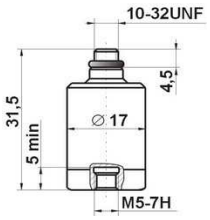
General Purpose Vibration Transducers with Built-In Electronics NTIP98-30, NTIP98-100, NTIP98-100-3.3, NTIP98-100-5, NTIP98-500


Parameter	Unit	NTIP98-30[*3] (NTIP98-30-01, NTIP98-30-02)	NTIP98-100[*3] (NTIP98-100-01, NTIP98-100-02)	NTIP98-100-3.3 (NTIP98-100-3.3-01, NTIP98-100-3.3-02)	NTIP98-100-5 (NTIP98-100-5-01, NTIP98-100-5-02)	NTIP98-500[*3] (NTIP98-500-01, NTIP98-500-02)
Axial sensitivity (± 10 %)	mV/g[*1]	30	100	100	100	500
Relative transverse sensitivity	%	< 5	< 5	< 5	< 5	< 5
Amplitude range	g[*1]	± 160	± 50	± 7	± 10	± 10
Max. shock limit (peak value)	g[*1]	±1500	±1000	±1000	±1000	±1000
Operating temperature range	° C	-40…+125	-40…+125	-40…+85	-40…+85	-40…+125
Frequency range (ripple±1dB)	Hz	0.5…12 000				
Self-resonant frequency in attached condition	kHz	> 40	> 40	> 40	> 40	> 40
Noise level, RMS (1 Hz … 10 kHz)	g[*1]	< 0.000 3	< 0.000 2	< 0.000 3	< 0.000 3	< 0.000 2
Output resistance	Ohm	< 500	< 500	< 500	< 200	< 500
Voltage power	V	+(15…30)	+(18…30)	+(3.3±5%)	+ 5	+(18…30)
Current power	mA	2…20	2…20	< 1	2	2…20
Constant output voltage level	V	8…11	10…13	2…2.5	2.5…3.5	10…13
Design	-	Shear	Shear	Shear	Shear	Shear
Bottom insulation	-	no	no	no	no	no
Connector type	-	10-32 (BNC)[*2]	10-32 (BNC)[*2]	10-32 (BNC)[*2]	10-32 (BNC)[*2]	10-32 (BNC)[*2]
Housing material	-	stainless steel				
Weight (without connector and cable)	gram	40 (25)[*2]	40 (25)[*2]	40 (25)[*2]	40 (25)[*2]	40 (25)[*2]

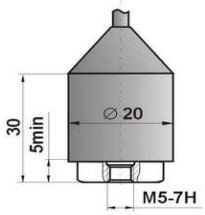
General view of NTIP98



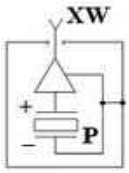
General view of NTIP98-01



General view of NTIP98-02



The typical electric circuit



The circuit of connection to a data-acquisition equipment