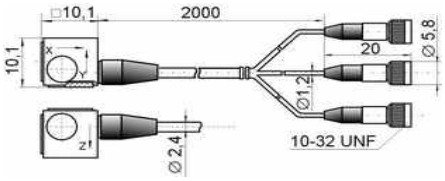
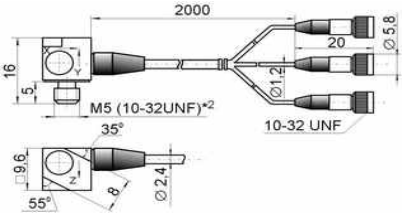
Miniature Triaxial Vibration Transducers
NTIP20,NTIP21,NTIP22,NTIP23

Parameter	Unit	NTIP20	NTIP21	NTIP22	NTIP23
Axial sensitivity (± 20 %)	pC/g[*1]	2	2	1	0.2－0.3
Relative transverse sensitivity	%	＜ 5	＜ 5	＜ 5	＜ 5
Amplitude range	g[*1]	±5000	±10000	±25000	± 20000
Max. shock limit (peak value)	g[*1]	±10000	±20000	±50000	±50 000
Operating temperature range	° C	-60…+150	-60…+150	-60…+150	-60…+150
Frequency range (ripple ± 1dB)	Hz	0.5…18000	0.5…20000	0.5…22000	0.5…30000
Self-resonant frequency in attached condition	kHz	＞ 50	＞ 55	＞ 80	＞ 80
Strain sensitivity	g・m/μm	＜ 0.0005	＜ 0.0005	＜ 0.0005	＜0.0005
Capacitance	pF	600…900	600…900	500…700	400…700
Insulation resistance in normal conditions	MOhm	＞ 10 000	＞ 10 000	＞ 10 000	＞ 1 000
Design	-	Shear	Shear	Shear	Shear
Housing material	-	titaniumalloy (st./steel)[*2]	titaniumalloy (st./steel)[*2]	titaniumalloy (st./steel)[*2]	titaniumalloy
Built-in cable length	m	2[*2]	2[*2]	2[*2]	2[*2]
Bottom insulation	-	yes	no	no	no
Weight(without connector and cable)	gram	5 (8)	5 (8)	4 (6)	3.1

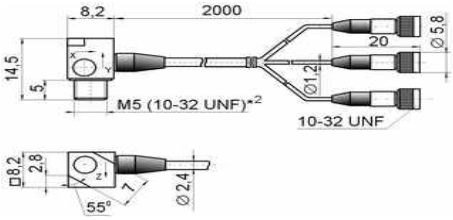
General view of NTIP20



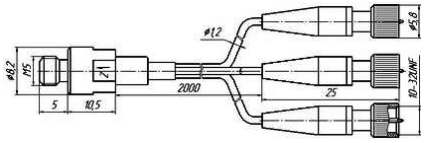
General view of NTIP21



General view of NTIP22



General view of NTIP23



The typical electrical circuit of NTIP20,NTIP21,NTIP22,NTIP23