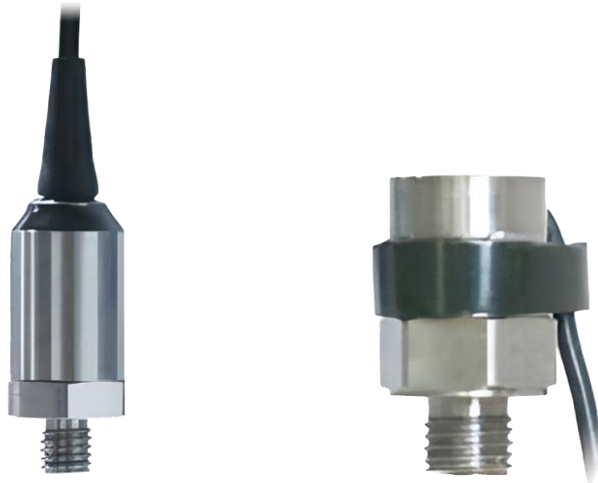


SSA-P8HI

High Impact Charge Accelerometer



PRODUCTS FEATURES

- High-impact test charge output sensor
- Special shear structure design
- The whole series uses memory alloy fasteners, shear structure, stable and reliable
- High-strength stainless steel material, M5/M6x0.75 intergrated screws are optional
- M5 or high-strength integrated cable output

1. Technical parameter SSA-P8HIA

Table 1. Technical characteristics SSA-P83HIA

Parameter		Condition	Unit
Sensitivity		0.05	pC/g
Measurement range		± 100000	g
Resonant frequency		>100	kHz
Frequency range	± 5 %	-	Hz
	± 10 %	5-15k	Hz
Lateral sensitivity		<5	%FS
Base strain		0.0008	g/ε
Impact limit		130000	gpk
Maximum vibration		-	grms
Sensitivity temperature coefficient		0,08	%/°C
Operating temperature		-50 ~160	°C
Dust and water protection		IP68	
Core capacitor		350	pF
Insulation resistance		>1 x 10 ¹¹	Ohm
Sensitive components		PZ24 piezoelectric ceramics	
Body material		Titanium alloy	
Output connector		Side end M5	
Mounting thread		4.1 hole /M5	
Ground insulation		> 1 x 10 ⁸	
Recommended installation torque		3.5	N m

2. Technical parameter SSA-P8HIB1
Table 2. Technical characteristics SSA-P8HIB1

Parameter		Condition	Unit
Sensitivity		0.3	pC/g
Measurement range		±80000	g
Resonant frequency		>80	kHz
Frequency range	± 5 %	-	kHz
	± 10 %	5-11k	Hz
Lateral sensitivity		<5	%FS
Base strain		0.0008	g/ε
Impact limit		90000	gpk
Maximum vibration		-	grms
Sensitivity temperature coefficient		0,05	%/°C
Operating temperature		-50 ~160	°C
Dust and water protection		IP68	
Core capacitor		320	pF
Insulation resistance		>1 x 10 ¹¹	Ohm
Sensitive components		PZ24 piezoelectric ceramics	
Body material		17-4SS	
Output connector		Top	
Mounting thread		M5/M6 x 0.75	
Ground insulation		>1 x 10 ⁸	
Recommended installation torque		3.0~3.5	N m

3. Technical parameter SSA-P8HIB2
Table 3. Technical characteristics SSA-P8HIB2

Parameter		Condition	Unit
Sensitivity		0.5	pC/g
Measurement range		±50000	g
Resonant frequency		>80	kHz
Frequency range	± 5 %	-	kHz
	± 10 %	5-11k	Hz
Lateral sensitivity		<5	%FS
Base strain		0.0008	g/ε
Impact limit		70000	gpk
Maximum vibration		-	grms
Sensitivity temperature coefficient		0,05	%/°C
Operating temperature		-50 ~160	°C
Dust and water protection		IP68	
Core capacitor		320	pF
Insulation resistance		>1 x 10 ¹¹	Ohm
Sensitive components		PZ24 piezoelectric ceramics	
Body material		17-4SS	
Output connector		Top	
Mounting thread		M5/M6 x 0.75	
Ground insulation		>1 x 10 ⁸	
Recommended installation torque		3.0~3.5	N m

4. Technical parameter SSA-P8HIB3
Table 4. Technical characteristics SSA-P8HIB3

Parameter		Condition	Unit
Sensitivity		1	pC/g
Measurement range		±25000	g
Resonant frequency		>65	kHz
Frequency range	± 5 %	-	kHz
	± 10 %	5-12k	Hz
Lateral sensitivity		<5	%FS
Base strain		0.0008	g/ε
Impact limit		35000	gpk
Maximum vibration		-	grms
Sensitivity temperature coefficient		0,05	%/°C
Operating temperature		-50 ~160	°C
Dust and water protection		IP68	
Core capacitor		300	pF
Insulation resistance		>1 x 10 ¹¹	Ohm
Sensitive components		PZ24 piezoelectric ceramics	
Body material		17-4SS	
Output connector		Top	
Mounting thread		M5/M6 x 0.75	
Ground insulation		>1 x 10 ⁸	
Recommended installation torque		3.0~3.5	N m

5. Technical parameter SSA-P8HIC
Table 5. Technical characteristics SSA-P8HIC

Parameter		Condition	Unit
Sensitivity		1	pC/g
Measurement range		±25000	g
Resonant frequency		>65	kHz
Frequency range	± 5 %	-	kHz
	± 10 %	5-12k	Hz
Lateral sensitivity		<5	%FS
Base strain		0.0008	g/ε
Impact limit		35000	gpk
Maximum vibration		-	grms
Sensitivity temperature coefficient		0,05	%/°C
Operating temperature		-50 ~160	°C
Dust and water protection		IP68	
Core capacitor		300	pF
Insulation resistance		>1 x 10 ¹¹	Ohm
Sensitive components		PZ24 piezoelectric ceramics	
Body material		17-4SS	
Output connector		Top	
Mounting thread		M5/M6 x 0.75	
Ground insulation		>1 x 10 ⁸	
Recommended installation torque		3.0~3.5	N m

6. Mechanical Dimensions

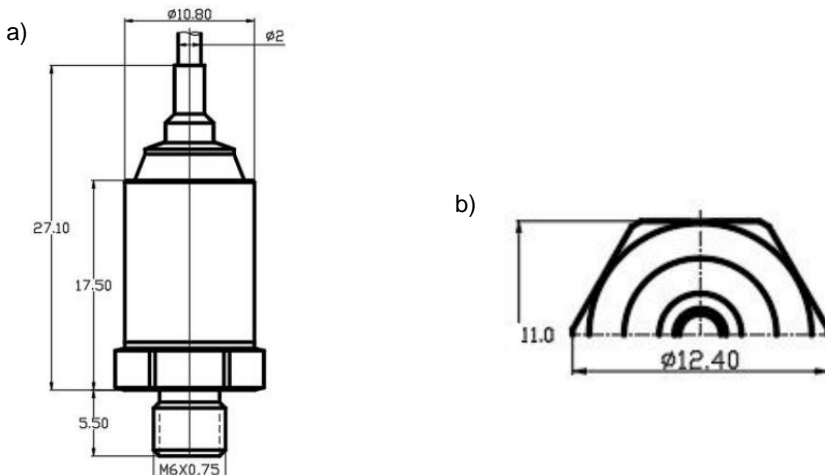


Figure 3.1 Mechanical Dimensions of SSA-P8HIBX model: a) side view b) top view

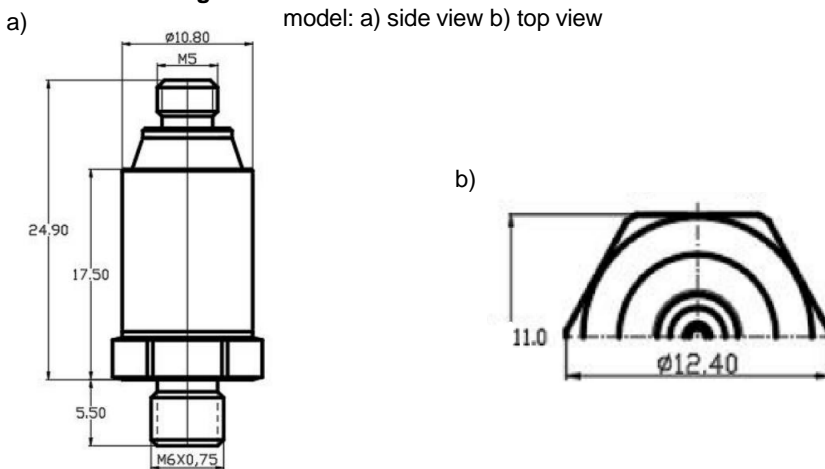


Figure 3.2 Mechanical Dimensions of SSA-P8HIA model: a) side view b) top view

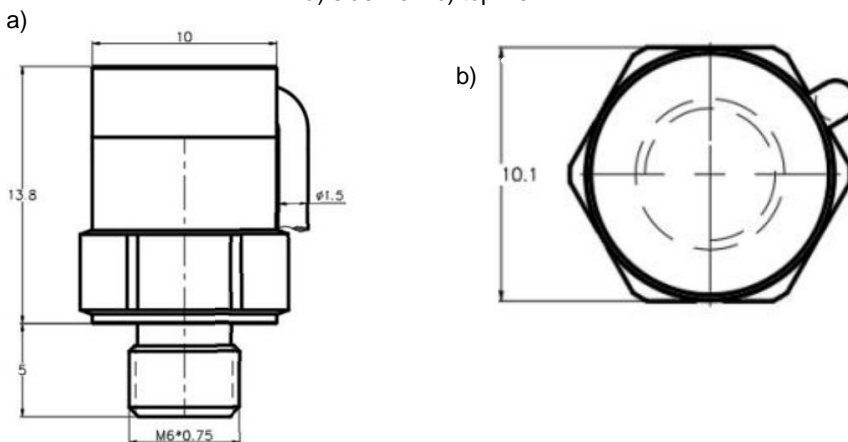
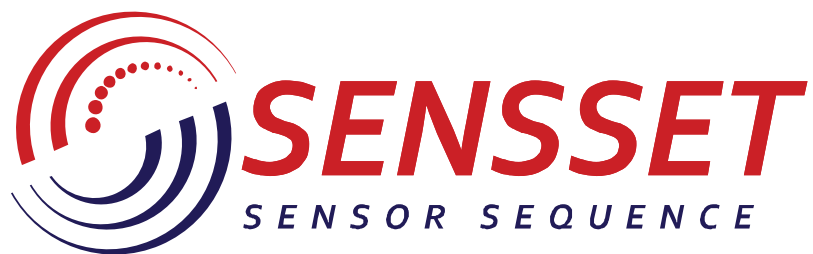


Figure 3.3 Mechanical Dimensions of SSA-P8HIC model: a) side view b) top view



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Development, production and supply of high-tech sensors