

# SSA-P8HLT

High and low temperature PE accelerometer



### PRODUCTS FEATURES

- High and low temperature test charge output sensor
- Special shear structure design, low temperature drift
- The whole series uses memory alloy fasteners, shear structure, stable and reliable
- M5 interface output

**1. Technical parameter SSA-P8HLTA11**
*Table 1. Technical characteristics SSA-P8HLTA11*

Parameter		Condition	Unit
Sensitivity		10	pC/g
Measurement range		±5000	g
Resonant frequency		>42	kHz
Frequency range	± 5 %	0.5-10k	Hz
	± 10 %	0.3-11k	Hz
Lateral sensitivity		<5	%FS
Base strain		0.0008	g/ε
Impact limit		6500	g pk
Maximum vibration		6500	g rms
Sensitivity temperature coefficient		0,06	%/°C
Operating temperature		-50 ~250	°C
Dust and water protection		IP68	
Core capacitor		1000	pF
Insulation resistance		>1 x 10 <sup>11</sup>	Ohm
Sensitive components		PZ23 piezoelectric ceramics	
Body material		Stainless steel	
Output connector		M5 side end	
Mounting thread		M5	
Recommended installation torque		3.0	N m

**2. Technical parameter SSA-P8HLTA12**
*Table 2. Technical characteristics SSA-P8HLTA12*

Parameter		Condition	Unit
Sensitivity		10	pC/g
Measurement range		±500	g
Resonant frequency		>42	kHz
Frequency range	± 5 %	0.5-10k	Hz
	± 10 %	0.3-11k	Hz
Lateral sensitivity		<5	%FS
Base strain		0.0008	g/ε
Impact limit		650	g pk
Maximum vibration		650	g rms
Sensitivity temperature coefficient		0,06	%/°C
Operating temperature		-70 ~250	°C
Dust and water protection		IP68	
Core capacitor		1000	pF
Insulation resistance		>1 x 10 <sup>11</sup>	Ohm
Sensitive components		PZ23 piezoelectric ceramics	
Body material		Stainless steel	
Output connector		M5 side end	
Mounting thread		M5	
Recommended installation torque		3.0	N m

**3. Technical parameter SSA-P8HLTA21**
*Table 3. Technical characteristics SSA-P8HLTA21*

Parameter		Condition	Unit
Sensitivity		30	pC/g
Measurement range		±150	g
Resonant frequency		>27	kHz
Frequency range	± 5 %	0.5-7k	Hz
	± 10 %	0.3-9k	Hz
Lateral sensitivity		<5	%FS
Base strain		0.0008	g/ε
Impact limit		3500	g pk
Maximum vibration		3000	g rms
Sensitivity temperature coefficient		0,06	%/°C
Operating temperature		-50 ~250	°C
Dust and water protection		IP68	
Core capacitor		1000	pF
Insulation resistance		>1 x 10 <sup>11</sup>	Ohm
Sensitive components		PZ23 piezoelectric ceramics	
Body material		Stainless steel	
Output connector		M5 side end	
Mounting thread		M5	
Recommended installation torque		3.0	N m

**4. Technical parameter SSA-P8HLTA22**
*Table 4. Technical characteristics SSA-P8HLTA22*

Parameter		Condition	Unit
Sensitivity		30	pC/g
Measurement range		±1500	g
Resonant frequency		>27	kHz
Frequency range	± 5 %	0.5-7k	Hz
	± 10 %	0.3-9k	Hz
Lateral sensitivity		<5	%FS
Base strain		0.0008	g/ε
Impact limit		300	g pk
Maximum vibration		300	g rms
Sensitivity temperature coefficient		0,06	%/°C
Operating temperature		-70 ~250	°C
Dust and water protection		IP68	
Core capacitor		1000	pF
Insulation resistance		>1 x 10 <sup>11</sup>	Ohm
Sensitive components		PZ23 piezoelectric ceramics	
Body material		Stainless steel	
Output connector		M5 side end	
Mounting thread		M5	
Recommended installation torque		3.0	N m

**5. Technical parameter SSA-P8HLTB11**
*Table 5. Technical characteristics SSA-P8HLTB11*

Parameter		Condition	Unit
Sensitivity		30	pC/g
Measurement range		±150	g
Resonant frequency		>27	kHz
Frequency range	± 5 %	0.5-7k	Hz
	± 10 %	0.3-9k	Hz
Lateral sensitivity		<5	%FS
Base strain		0.0008	g/ε
Impact limit		300	g pk
Maximum vibration		300	g rms
Sensitivity temperature coefficient		0,06	%/°C
Operating temperature		-70 ~250	°C
Dust and water protection		IP68	
Core capacitor		1000	pF
Insulation resistance		>1 x 10 <sup>11</sup>	Ohm
Sensitive components		PZ23 piezoelectric ceramics	
Body material		Stainless steel	
Output connector		M5 top	
Mounting thread		M5	
Recommended installation torque		3.0	N m

**6. Technical parameter SSA-P8HLTB12**
*Table 6 Technical characteristics SSA-P8HLTB12*

Parameter		Condition	Unit
Sensitivity		30	pC/g
Measurement range		±1500	g
Resonant frequency		>27	kHz
Frequency range	± 5 %	0.5-7k	Hz
	± 10 %	0.3-9k	Hz
Lateral sensitivity		<5	%FS
Base strain		0.0008	g/ε
Impact limit		3500	g pk
Maximum vibration		3500	g rms
Sensitivity temperature coefficient		0,06	%/°C
Operating temperature		-50 ~250	°C
Dust and water protection		IP68	
Core capacitor		1000	pF
Insulation resistance		>1 x 10 <sup>11</sup>	Ohm
Sensitive components		PZ23 piezoelectric ceramics	
Body material		Stainless steel	
Output connector		M5 top	
Mounting thread		M5	
Recommended installation torque		3.0	N m



**7. Technical parameter SSA-P8HLTB21**
*Table 7 Technical characteristics SSA-P8HLTB21*

Parameter		Condition	Unit
Sensitivity		10	pC/g
Measurement range		±500	g
Resonant frequency		>42	kHz
Frequency range	± 5 %	0.5-10k	Hz
	± 10 %	0.3-11k	Hz
Lateral sensitivity		<5	%FS
Base strain		0.0008	g/ε
Impact limit		650	g pk
Maximum vibration		650	g rms
Sensitivity temperature coefficient		0,06	%/°C
Operating temperature		-70 ~250	°C
Dust and water protection		IP68	
Core capacitor		1000	pF
Insulation resistance		>1 x 10 <sup>11</sup>	Ohm
Sensitive components		PZ23 piezoelectric ceramics	
Body material		Stainless steel	
Output connector		M5 top	
Mounting thread		M5	
Recommended installation torque		3.0	N m

**8. Technical parameter SSA-P8HLTB22**
*Table 8 Technical characteristics SSA-P8HLTB22*

Parameter		Condition	Unit
Sensitivity		10	pC/g
Measurement range		±5000	g
Resonant frequency		>42	kHz
Frequency range	± 5 %	0.5-10k	Hz
	± 10 %	0.3-11k	Hz
Lateral sensitivity		<5	%FS
Base strain		0.0008	g/ε
Impact limit		6500	g pk
Maximum vibration		6500	g rms
Sensitivity temperature coefficient		0,06	%/°C
Operating temperature		-50 ~250	°C
Dust and water protection		IP68	
Core capacitor		1000	pF
Insulation resistance		>1 x 10 <sup>11</sup>	Ohm
Sensitive components		PZ23 piezoelectric ceramics	
Body material		Stainless steel	
Output connector		M5 top	
Mounting thread		M5	
Recommended installation torque		3.0	N m

**9. Technical parameter SSA-P8HLTB3**
*Table 9 Technical characteristics SSA-P8HLTB3*

Parameter		Condition	Unit
Sensitivity		5	pC/g
Measurement range		±6000	g
Resonant frequency		>48	kHz
Frequency range	± 5 %	0.5-15k	Hz
	± 10 %	0.3-16k	Hz
Lateral sensitivity		<5	%FS
Base strain		0.0008	g/ε
Impact limit		8000	g pk
Maximum vibration		8000	g rms
Sensitivity temperature coefficient		0,06	%/°C
Operating temperature		-50 ~250	°C
Dust and water protection		IP68	
Core capacitor		1200	pF
Insulation resistance		>1 x 10 <sup>11</sup>	Ohm
Sensitive components		PZ23 piezoelectric ceramics	
Body material		Stainless steel	
Output connector		M5 top	
Mounting thread		M5	
Recommended installation torque		3.0	N m

10. Mechanical Dimensions

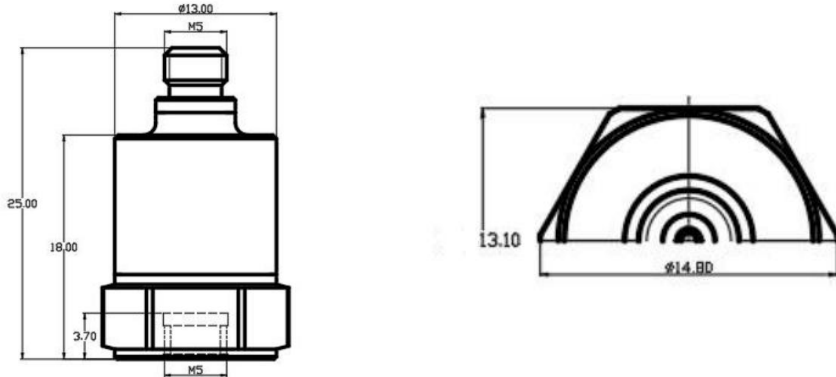


Figure 1. Model B2X (Model B3): a) side view b) top view

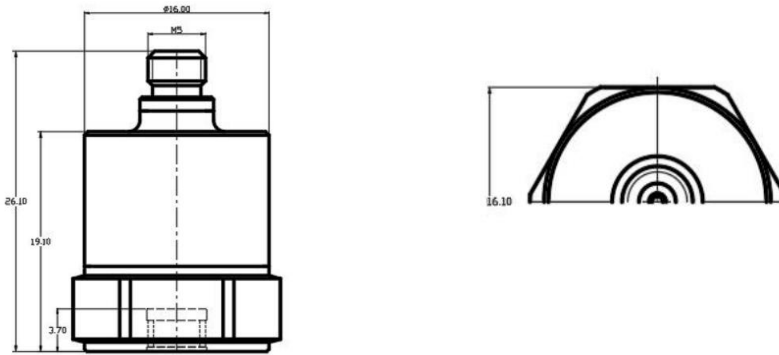


Figure 2. Model B1X: a) side view b) top view

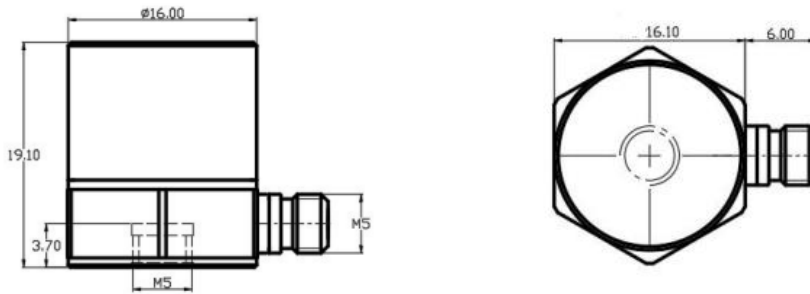


Figure 3. Model A2X: a) side view b) top view

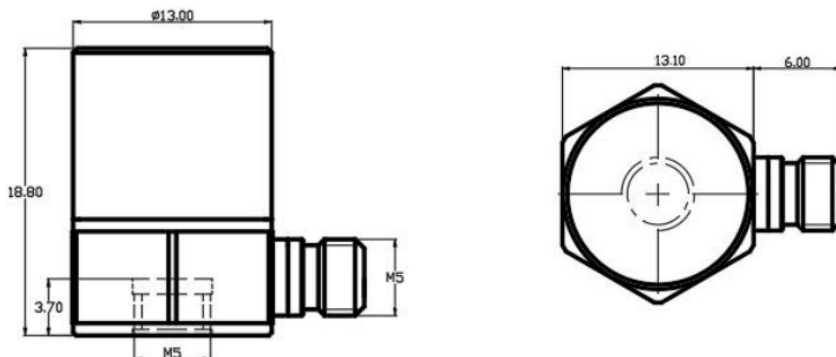
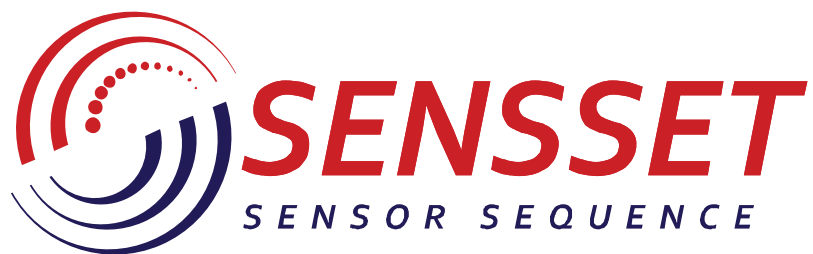


Figure 4. Model A1X: a) side view b) top view



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