SENSSET
SENSOR SEQUENCE

SSA-P8UC

Universal charge accelerometer

PRODUCTS FEATURES

- General vibration test charge output sensor
- The whole series uses memory alloy fasteners, shear structure, stable and reliable
- Standard models, series, multiple output forms, and multiple range are optional
- Top or side end M5 Mouth output

1. Technical parameter SSA-P8UCA1

Table 1. Technical characteristics SSA-P8UCA1

Parameter		Condition	Unit
Sensitivity		3	pC/g
Measurement range		±3500	g
Resonant frequency		>50	kHz
Frequency range	± 5 %	0.5-12k	Hz
	± 10 %	0.3-15k	Hz
Lateral sensitivity		<5	%FS
Base strain		0.0008	g/ε
Impact limit		6000	gpk
Maximum vibration		4000	grms
Sensitivity temperature coefficient		0,068	%/°C
Operating temperature		-40 ~160	°C
Dust and water protection		IP68	
Core capacitor		350	pF
Insulation resistance		>1 x 10^{11}	Ohm
Sensitive components		PZT-5 piezoelectric ceramics	
Body material		Titanium alloy	
Output connector		Side end M3	
Mounting thread		M3	
Recommended installation torque		0.6	N m

2. Technical parameter SSA-P8UCA2

Table 2. Technical characteristics SSA-P8UCA2

Parameter		Condition	Unit
Sensitivity		10	pC/g
Measurement range		±1500	g
Resonant frequency		>42	kHz
Frequency range	± 5 %	0.5-10k	kHz
	± 10 %	0.3-11k	kHz
Lateral sensitivity		<5	%FS
Base strain		0.0008	g/ε
Impact limit		5000	gpk
Maximum vibration		3000	grms
Sensitivity temperature coefficient		0,08	%/°C
Operating temperature		-40 ~160	°C
Dust and water protection		IP68	
Core capacitor		850	pF
Insulation resistance		>1 x 10^{11}	Ohm
Sensitive components		PZT-5 piezoelectric ceramics	
Body material		Titanium alloy	
Output connector		M5 side end	
Mounting thread		M5	
Recommended installation torque		3.0	N m

3. Technical parameter SSA-P8UCA3

Table 3. Technical characteristics SSA-P8UCA3

Parameter		Condition	Unit
Sensitivity		30	pC/g
Measurement range		±1000	g
Resonant frequency		>27	kHz
Frequency range	± 5 %	0.5-7k	kHz
	± 10 %	0.3-9k	kHz
Lateral sensitivity		<5	%FS
Base strain		0.0008	g/ε
Impact limit		2500	gpk
Maximum vibration		2000	grms
Sensitivity temperature coefficient		0,08	%/°C
Operating temperature		-40 ~160	°C
Dust and water protection		IP68	
Core capacitor		850	pF
Insulation resistance		>1 x 10^{11}	Ohm
Sensitive components		PZT-5 piezoelectric ceramics	
Body material		Titanium alloy	
Output connector		M5 side end	
Mounting thread		M5	
Recommended installation torque		3.0	N m

4. Technical parameter SSA-P8UCA4

Table 4. Technical characteristics SSA-P8UCA4

Parameter		Condition	Unit
Sensitivity		50	pC/g
Measurement range		±800	g
Resonant frequency		>20	kHz
Frequency range	± 5 %	0.5-5k	kHz
	± 10 %	0.3-6k	kHz
Lateral sensitivity		<5	%FS
Base strain		0.0008	g/ε
Impact limit		2500	gpk
Maximum vibration		1600	grms
Sensitivity temperature coefficient		0,08	%/°C
Operating temperature		-40 ~160	°C
Dust and water protection		IP68	
Core capacitor		850	pF
Insulation resistance		>1 x 10^{11}	Ohm
Sensitive components		PZT-5 piezoelectric ceramics	
Body material		Titanium alloy	
Output connector		M5 side end	
Mounting thread		M5	
Recommended installation torque		3.0	N m

5. Technical parameter SSA-P8UCA5

Table 5. Technical characteristics SSA-P8UCA5

Parameter		Condition	Unit
Sensitivity		100	pC/g
Measurement range		±500	g
Resonant frequency		>22	kHz
Frequency range	± 5 %	0.5-6k	kHz
	± 10 %	0.3-7k	kHz
Lateral sensitivity		<5	%FS
Base strain		0.0008	g/ε
Impact limit		1500	gpk
Maximum vibration		800	grms
Sensitivity temperature coefficient		0,08	%/°C
Operating temperature		-40 ~160	°C
Dust and water protection		IP68	
Core capacitor		2400	pF
Insulation resistance		>1 x 10^{11}	Ohm
Sensitive components		PZT-5 piezoelectric ceramics	
Body material		Titanium alloy	
Output connector		M5 side end	
Ground insulation		>10^{8}	Ohm
Mounting thread		M5	
Recommended installation torque		3.0	N m

6. Technical parameter SSA-P8UCA6

Table 6. Technical characteristics SSA-P8UCA6

Parameter		Condition	Unit
Sensitivity		300	pC/g
Measurement range		±200	g
Resonant frequency		>16	kHz
Frequency range	± 5 %	0.5-3k	kHz
	± 10 %	0.3-4k	kHz
Lateral sensitivity		<5	%FS
Base strain		0.0008	g/ε
Impact limit		800	gpk
Maximum vibration		500	grms
Sensitivity temperature coefficient		0,08	%/°C
Operating temperature		-40 ~160	°C
Dust and water protection		IP68	
Core capacitor		2300	pF
Insulation resistance		>1 x 10^{11}	Ohm
Sensitive components		PZT-5 piezoelectric ceramics	
Body material		Titanium alloy	
Output connector		M5 side end	
Mounting thread		M5	
Recommended installation torque		3.0	N m

7. Technical parameter SSA-P8UCB1

Table 7. Technical characteristics SSA-P8UCB1

Parameter		Condition	Unit
Sensitivity		3	pC/g
Measurement range		±3500	g
Resonant frequency		>50	kHz
Frequency range	± 5 %	0.5-12k	kHz
	± 10 %	0.3-15k	kHz
Lateral sensitivity		<5	%FS
Base strain		0.0008	g/ε
Impact limit		6000	gpk
Maximum vibration		4000	grms
Sensitivity temperature coefficient		0,08	%/°C
Operating temperature		-40 ~160	°C
Dust and water protection		IP68	
Core capacitor		350	pF
Insulation resistance		>1 x 10^{11}	Ohm
Sensitive components		PZ27 piezoelectric ceramics	
Body material		Titanium alloy	
Output connector		M5 top	
Mounting thread		M5	
Recommended installation torque		0.6	N m

8. Technical parameter SSA-P8UCB2

Table 8. Technical characteristics SSA-P8UCB2

Parameter		Condition	Unit
Sensitivity		10	pC/g
Measurement range		±1500	g
Resonant frequency		>42	kHz
Frequency range	± 5 %	0.5-10k	kHz
	± 10 %	0.3-11k	kHz
Lateral sensitivity		<5	%FS
Base strain		0.0008	g/ε
Impact limit		5000	gpk
Maximum vibration		3000	grms
Sensitivity temperature coefficient		0,08	%/°C
Operating temperature		-40 ~160	°C
Dust and water protection		IP68	
Core capacitor		850	pF
Insulation resistance		>1 x 10^{11}	Ohm
Sensitive components		PZ27 piezoelectric ceramics	
Body material		Titanium alloy	
Output connector		M5 top	
Mounting thread		M5	
Recommended installation torque		0.6	N m

9. Technical parameter SSA-P8UCB3

Table 9. Technical characteristics SSA-P8UCB3

Parameter		Condition	Unit
Sensitivity		30	pC/g
Measurement range		±1000	g
Resonant frequency		>27	kHz
Frequency range	± 5 %	0.5-7k	kHz
	± 10 %	0.3-9k	kHz
Lateral sensitivity		<5	%FS
Base strain		0.0008	g/ε
Impact limit		2500	gpk
Maximum vibration		2000	grms
Sensitivity temperature coefficient		0,08	%/°C
Operating temperature		-40 ~160	°C
Dust and water protection		IP68	
Core capacitor		850	pF
Insulation resistance		>1 x 10^{11}	Ohm
Sensitive components		PZ27 piezoelectric ceramics	
Body material		Titanium alloy	
Output connector		M5 top	
Mounting thread		M3	
Recommended installation torque		3.0	N m

10. Technical parameter SSA-P8UCB4

Table 10. Technical characteristics SSA-P8UCB4

Parameter		Condition	Unit
Sensitivity		50	pC/g
Measurement range		±800	g
Resonant frequency		>20	kHz
Frequency range	± 5 %	0.5-5k	kHz
	± 10 %	0.3-6k	kHz
Lateral sensitivity		<5	%FS
Base strain		0.0008	g/ε
Impact limit		2500	gpk
Maximum vibration		1600	grms
Sensitivity temperature coefficient		0,08	%/°C
Operating temperature		-40 ~160	°C
Dust and water protection		IP68	
Core capacitor		850	pF
Insulation resistance		>1 x 10^{11}	Ohm
Sensitive components		PZ27 piezoelectric ceramics	
Body material		Titanium alloy	
Output connector		M5 top	
Mounting thread		M5	
Recommended installation torque		3.0	N m

11. Technical parameter SSA-P8UCB5

Table 11. Technical characteristics SSA-P8UCB5

Parameter		Condition	Unit
Sensitivity		100	pC/g
Measurement range		±500	g
Resonant frequency		>22	kHz
Frequency range	± 5 %	0.5-6k	kHz
	± 10 %	0.3-7k	kHz
Lateral sensitivity		<5	%FS
Base strain		0.0008	g/ε
Impact limit		1500	gpk
Maximum vibration		800	grms
Sensitivity temperature coefficient		0,08	%/°C
Operating temperature		-40 ~160	°C
Dust and water protection		IP68	
Core capacitor		2400	pF
Insulation resistance		>1 x 10^{11}	Ohm
Sensitive components		PZ27 piezoelectric ceramics	
Body material		Titanium alloy	
Ground insulation		>10^{8}	Ohm
Output connector		M5 top	
Mounting thread		M5	
Recommended installation torque		3.0	N m

12. Technical parameter SSA-P8UCB6

Table 12. Technical characteristics SSA-P8UCB6

Parameter		Condition	Unit
Sensitivity		300	pC/g
Measurement range		±200	g
Resonant frequency		>16	kHz
Frequency range	± 5 %	0.5-3k	kHz
	± 10 %	0.3-4k	kHz
Lateral sensitivity		<5	%FS
Base strain		0.0008	g/ε
Impact limit		800	gpk
Maximum vibration		500	grms
Sensitivity temperature coefficient		0,08	%/°C
Operating temperature		-40 ~160	°C
Dust and water protection		IP68	
Core capacitor		3500	pF
Insulation resistance		>1 x 10^{11}	Ohm
Sensitive components		PZ27 piezoelectric ceramics	
Body material		Titanium alloy	
Output connector		M5 top	
Mounting thread		M5	
Recommended installation torque		3.0	N m

13. Technical parameter SSA-P8UCB7

Table 13. Technical characteristics SSA-P8UCB7

Parameter		Condition	Unit
Sensitivity		1000	pC/g
Measurement range		±50	g
Resonant frequency		>8	kHz
Frequency range	± 5 %	0.5-1.5k	kHz
	± 10 %	0.3-2k	kHz
Lateral sensitivity		<5	%FS
Base strain		0.0008	g/ε
Impact limit		600	gpk
Maximum vibration		200	grms
Sensitivity temperature coefficient		0,08	%/°C
Operating temperature		-40 ~160	°C
Dust and water protection		IP68	
Core capacitor		2300	pF
Insulation resistance		>1 x 10^{11}	Ohm
Sensitive components		PZ27 piezoelectric ceramics	
Body material		Titanium alloy	
Output connector		M5 top	
Mounting thread		M5	
Recommended installation torque		0.6	N m

14. Mechanical Dimensions

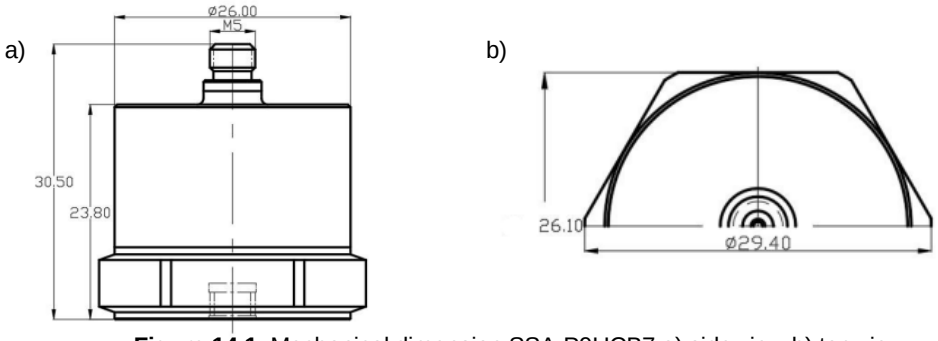

Figure 14.1. Mechanical dimension SSA-P9UCB7 a) side view b) top view

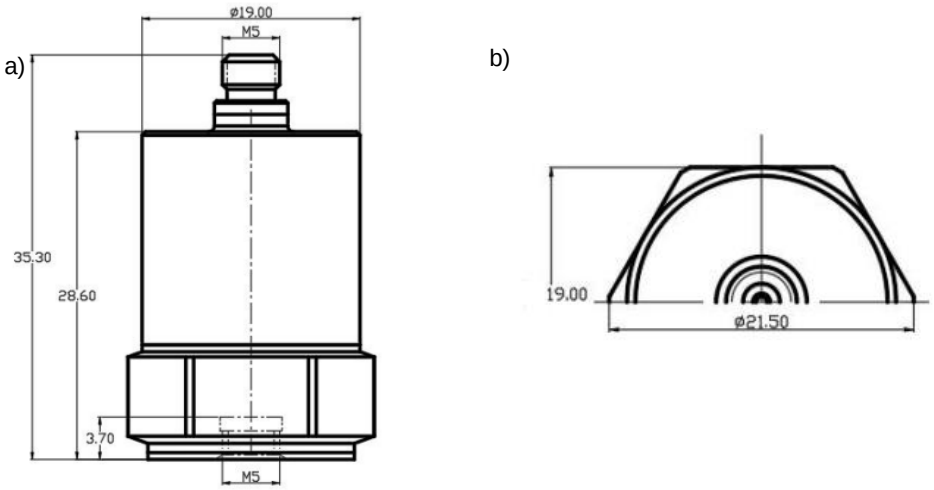

Figure 14.2. Mechanical dimension SSA-P9UCB6 a) side view b) top view

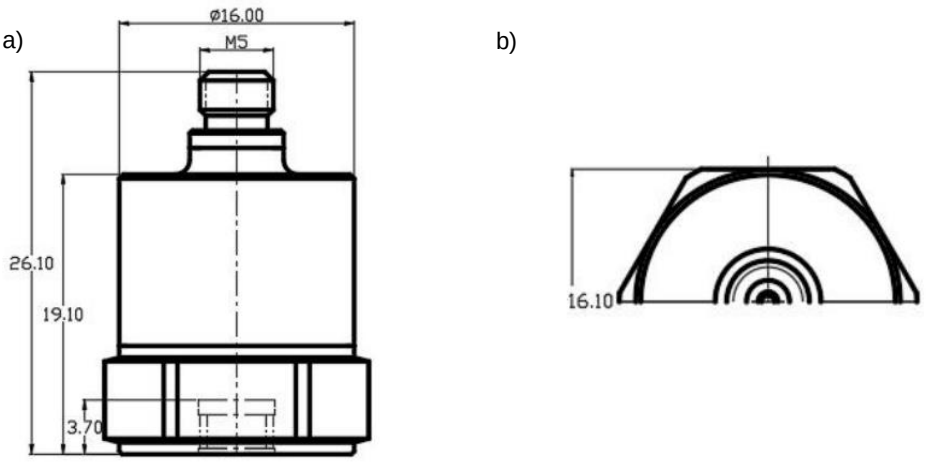

Figure 14.3. Mechanical dimension SSA-P9UCB5, SSA-P9UC4, SSA-P9UCB3 models a)side view b)top view

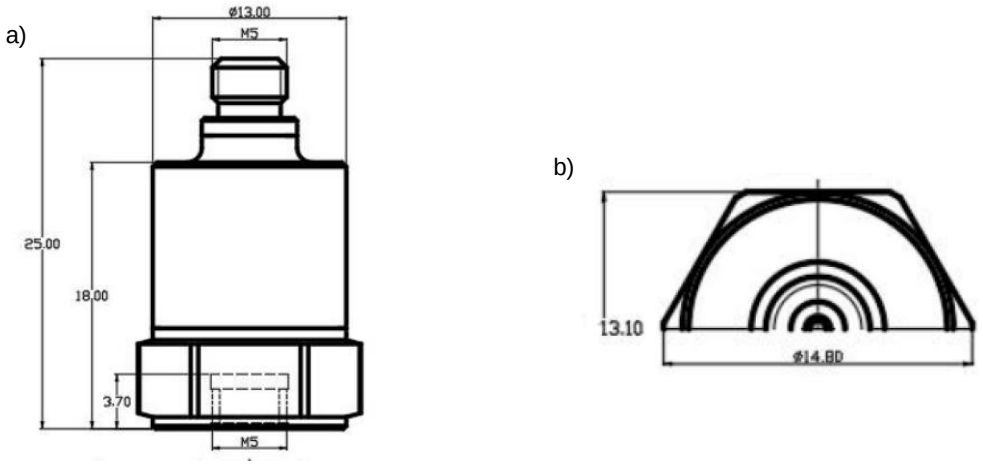

Figure 14.4. Mechanical Dimension SSA-P9UCB2 a) side view b) top view

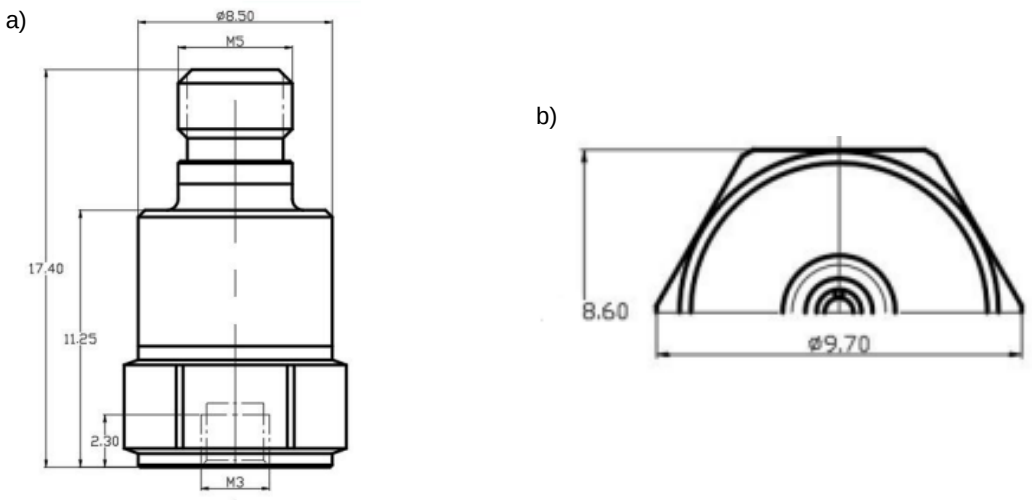

Figure 14.5. Mechanical Dimension SSA-P9UCB1 a) side view b) top view

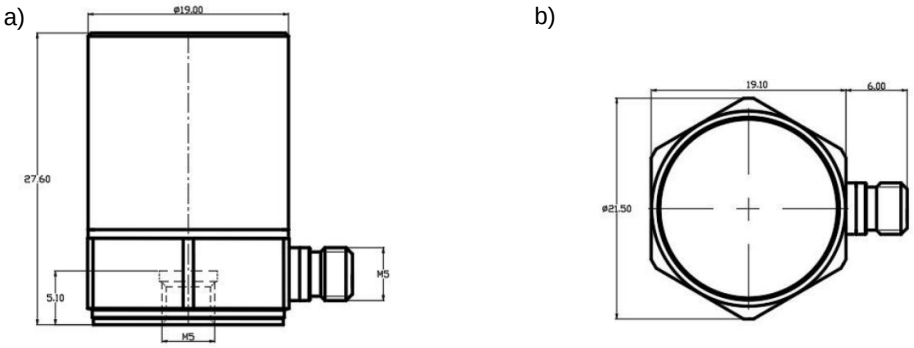

Figure 14.6. Mechanical dimension SSA-P8UCA6 a) side view b) top view

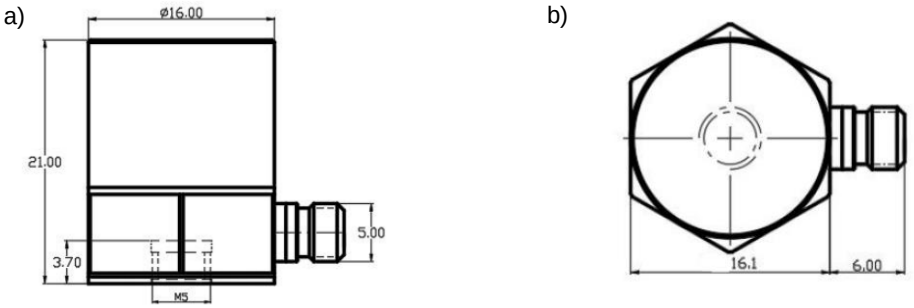

Figure 14.7. Mechanical dimension SSA-P8UCA5 a) side view b) top view

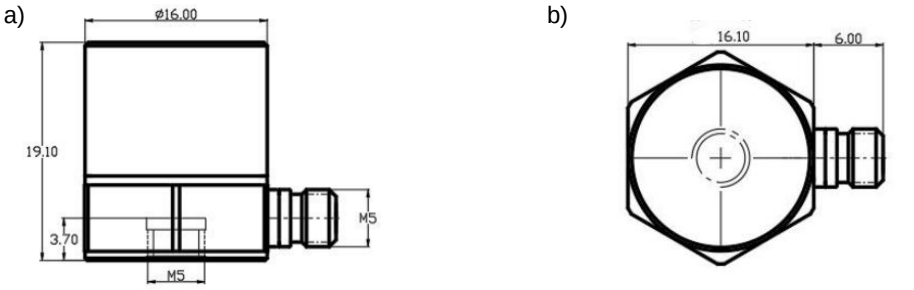

Figure 14.8. Mechanical dimension SSA-P8UCA4 and SSA-P8UCA3 a) side view b) top view

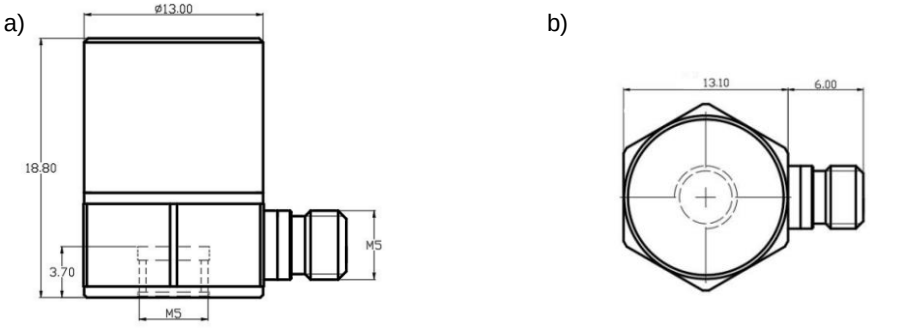

Figure 14.9. Mechanical dimension SSA-P8UCA2 a) side view b) top view

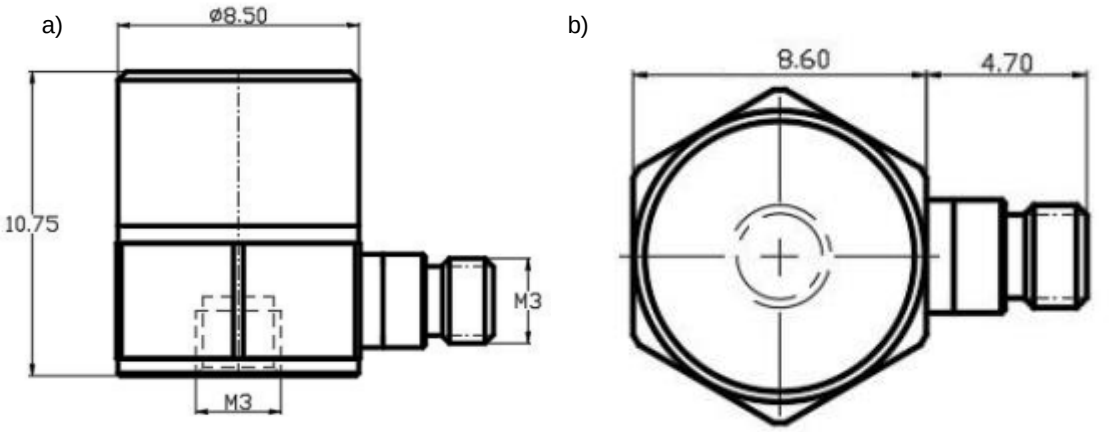

Figure 14.10. Mechanical dimension SSA-P8UCA1 a) side view b) top view

SENSSET
SENSOR SEQUENCE

www.sensset.ru

8 (812) 309-58-32 доб. 150
info@sensset.ru

198099, г. Санкт-Петербург
ул. Калинина, дом 2, корпус 4, литера А.

Development, production and supply of high-tech sensors