

SSA-P83HS

High Shock and Large Range 3-axial PE Accelerometer



PRODUCTS FEATURES

- High impact test 3-axial charge output sensor
- Special shear structure design, through hole design
- The whole series uses memory alloy fasteners, shear structure, stable and reliable
- Titanium alloy material, lightweight design
- M5 Mouth output

1. Technical parameter SSA-P83HSA
Table 1. Technical characteristics SSA-P83HSA

| Parameter | | Condition | Unit |
|-------------------------------------|--------|-----------------------------|------|
| Sensitivity | | 0.3 | pC/g |
| Measurement range | | ±20000 | g |
| Resonant frequency | | >85 | kHz |
| Frequency range | ± 5 % | 3-9k | Hz |
| | ± 10 % | 2-11k | Hz |
| Lateral sensitivity | | <5 | %FS |
| Base strain | | 0.0008 | g/ε |
| Impact limit | | 25000 | gpk |
| Maximum vibration | | - | grms |
| Sensitivity temperature coefficient | | 0,06 | %/°C |
| Operating temperature | | -50 ~230 | °C |
| Dust and water protection | | IP68 | |
| Core capacitor | | 180 | pF |
| Insulation resistance | | >1 x 10 ¹¹ | Ohm |
| Sensitive components | | PZ24 piezoelectric ceramics | |
| Body material | | Titanium alloy | |
| Output connector | | M5 x 3 | |
| Mounting thread | | 4.1 hole /M5 | |
| Recommended installation torque | | 1.6 | N m |

2. Technical parameter SSA-P83HSB
Table 2. Technical characteristics SSA-P83HSB

| Parameter | | Condition | Unit |
|-------------------------------------|--------|-----------------------------|------|
| Sensitivity | | 1 | pC/g |
| Measurement range | | ±5000 | g |
| Resonant frequency | | >85 | kHz |
| Frequency range | ± 5 % | 3-10k | Hz |
| | ± 10 % | 2-11k | Hz |
| Lateral sensitivity | | <5 | %FS |
| Base strain | | 0.0008 | g/ε |
| Impact limit | | 12000 | gpk |
| Maximum vibration | | - | grms |
| Sensitivity temperature coefficient | | 0,06 | %/°C |
| Operating temperature | | -50 ~230 | °C |
| Dust and water protection | | IP68 | |
| Core capacitor | | 150 | pF |
| Insulation resistance | | >1 x 10 ¹¹ | Ohm |
| Sensitive components | | PZ24 piezoelectric ceramics | |
| Body material | | Titanium alloy | |
| Output connector | | M5 x 3 | |
| Mounting thread | | 4.1 hole M5 | |
| Recommended installation torque | | 1.6 | N m |

3. Mechanical Dimensions

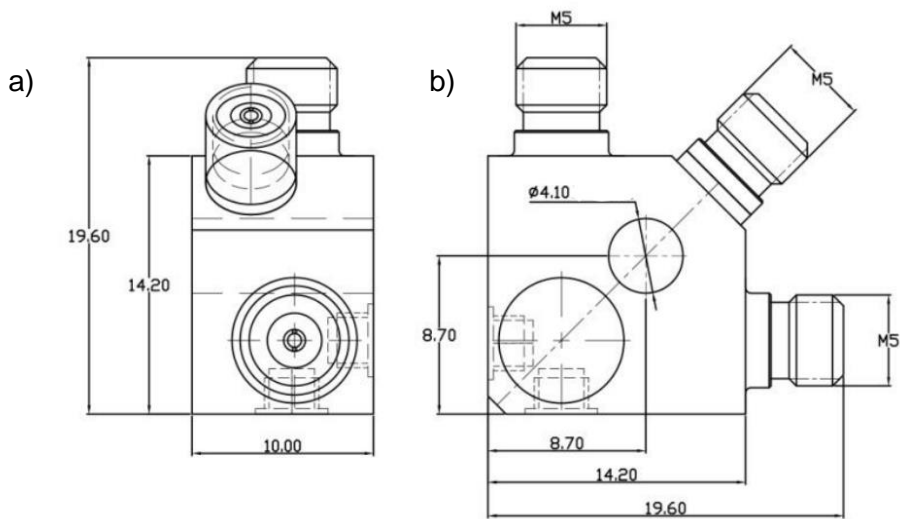
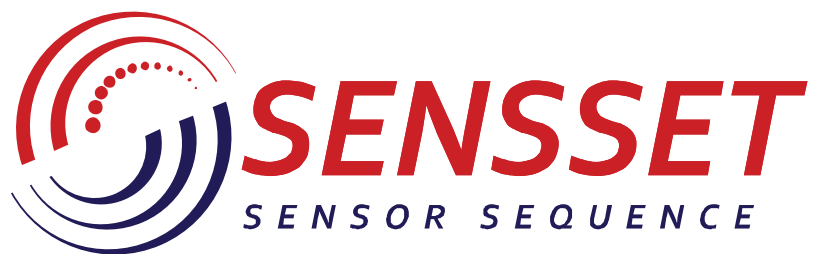


Figure 1. Mechanical dimension SSA-P83HS series: a) front view b) side view



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