

ACCÉLÉROMÈTRE ICP® MINIATURE TRIAXIAL - TECHNOLOGIE TEDS

Modèles 356A43, 356A44, 356A45

Les capteurs 356A43, 356A44 et 356A45 sont des accéléromètres ICP triaxiaux miniatures équipés du module TEDS, qui vous simplifient la mise en place de votre essai !

Hermétiquement scellés dans un cube de titane, ils sont légers (4.2g) et de petite taille (10 mm³).

Le module TEDS permet au système de mesure d'accéder automatiquement aux caractéristiques techniques propres à chaque capteur.



Points forts

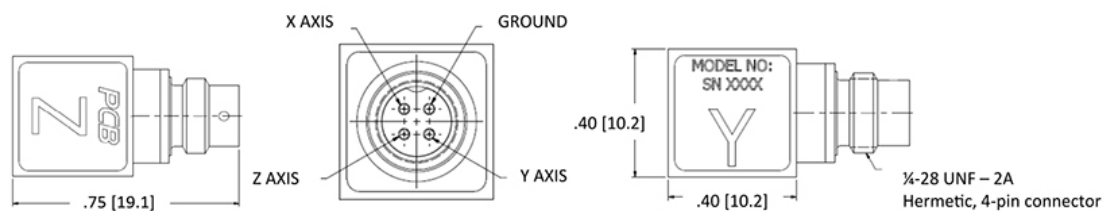
- Léger et de petite taille
- Module TEDS IEEE 1451.4
- Large gamme de fréquence
- Fréquence de résonance élevée
- Boîtier titane

Applications

Ce capteur permet la mesure de tout type de vibrations, par exemple :

- Analyse modale et analyse de structure
- Essais NVH sur des pièces automobiles
- Essais dans des espaces confinés
- Essais de chute
- Qualification de petits composants





Specifications

	356A43	356A44	356A45
Performance			
Sensitivity Tolerance (±10%)	10 mV/g [1.02 mV/(m/s²)]	50 mV/g [5.1 mV/(m/s²)]	100 mV/g [10.2 mV/(m/s²)]
Measurement Range	± 500 g pk [± 4905 m/s² pk]	± 100 g pk [± 981 m/s² pk]	± 50 g pk [± 490 m/s² pk]
Frequency Range (±5%)	0.7 – 7,000 Hz		
Frequency Range (±10%)	0.4 – 10,000 Hz		
Resonant Frequency	≥ 30 kHz		
Broadband Resolution	0.0008 g rms [0.008 m/s² rms]	0.0006 g rms [0.006 m/s² rms]	0.0005 g rms [0.005 m/s² rms]
Non-linearity	≤ 1 %		
Transverse Sensitivity	≤ 6 %		
TEDS Compliant (IEEE 1451.4)	Yes		
Environmental			
Overload Limit (Shock)	± 5000 g pk [± 49,050 m/s² pk]		
Temperature Range (Operating)	-65 to +250 °F (-54 to +121 °C)	-65 to +200 °F (-54 to +93 °C)	-65 to +185 °F (-54 to +85 °C)
Electrical			
Excitation Voltage	20 – 30 VDC		
Constant Current Excitation	2 – 20 mA		
Physical			
Housing Material	Titanium		
Sealing	Hermetic		
Size (height x width x length)	0.4 x 0.4 x 0.75 in. (10.2 x 10.2 x 19.1 mm)		
Weight	0.15 oz [4.2 g]		
Electrical Connector	1/4 – 28 4-pin		
Electrical Connector Position	Side		
Mounting	Adhesive (no tapped hole)		

4-conductor cables

The table below provides the most relevant specifications for the five cable types commonly used with ICP® triaxial sensors.



Cable Series	010	034	019	036	078
Cable Style	General Purpose	General Purpose Low Noise	Flexible Lightweight	Flexible	Rugged Flexible
Jacket Material	FEP	FEP	Silicone	Silicone	Polyurethane
Cable Jacket Diameter	0.1 in 2.54 mm	0.077 in 1.96 mm	0.070 in 1.77 mm	0.104 in 2.64 mm	0.119 in 3.02 mm
Temperature Range	-130 to +392 °F -90 to +200 °C	-130 to +392 °F -90 to +200 °C	-76 to +500 °F -60 to +260 °C	-76 to +392 °F -60 to +200 °C	-58 to +185 °F -50 to +85 °C
Pull Strength	34 lb	19 lb	10 lb	30 lb	25 lb
10-foot cable assembly model number**	010G10	034G10	019AY010JW	036G10	078G10

**The model numbers provided are for BNC plug terminated 10-foot cable assemblies compatible with the 356A43, A44 and A45 sensors.

**Visit www.pcb.com/shopsensors to find, compare and shop additional cable assembly lengths and connector combinations.