

## Stud, Non Isolated, Model 191

### Main Characteristics

- -260°C to 700 °C (-436°F to 1292°F) (options dependant)
- Large choice of options for material and thread
- For top connector accelerometer model 101 and 105

### Description

This is the most usual method for accelerometer mounting. These studs are detachable, permitting rapid, low cost replacement. They are used by most accelerometer manufacturers but they are not fully compatible due to the sensor shoulder diameter and the thread length. You should not use ordinary machine screw because they lack a flange or shoulder and might bottom in the accelerometer and degrades his dynamic response. Stud mounting is considered as the most reliable way to mount a vibration sensor. Stud mounting will attain the maximum sensor frequency range. Stud mounting requires a tapped hole drilled directly into the structure. The sensor requires a flat spot faced surface with a perpendicular tapped hole.

### Ordering information

To order, specify part number, options and suffix :

**191.01- AA - BB - C (Mod)**

#### AA : Sensor end

- 05 - M5x0.8
- 06 - M6x1
- 15 - 10-32 UNF 2A
- 16 - 1/4 28 UNF 2A

#### BB : Machine/Structure end

- 05 - M5x0.8
- 06 - M6x1
- 08 - M8x1.25
- 15 - 10-32 UNF 2A
- 16 - 1/4 28 UNF 2A

#### C : Material

- 1 - Aisi 303
- 2 - Aisi 316L
- 3 - Nimonic 90

#### (Mod)

(Mod)\*\* : modification defined by customers. For example shoulder diameter.

### Ordering example

191.01-05-05-1 Stud, non isolated

### Stocked models :

191.01-15-15-1 / 191.01-15-05-1 / 191.01-06-06-1 / 191.01-06-16-1 / 191.01-06-08-1 / 191.01-16-06-1 / 191.01-16-16-1 / 191.01-16-08-1

### Competitor's cross reference list

VibraSens Ref.	Competitor's Ref.
191.01-16-16-1	Wilcoxon SF6, PCB 081B20
191.01-16-06-1	PCB M081B20
191.01-15-15-1	Wilcoxon SF1, Endevco 2984-2, PCB 081B05
191.01-15-05-1	PCB M081B23
191.01-15-06-1	PCB M081B05
191.01-15-16-1	Wilcoxon SF3, Endevco 22330, PCB 081A08
191.01-16-08-1	Wilcoxon SF6M,
191.01-16-06-1	Wilcoxon SF6M-1,



Model 191.01-06-1

### Specifications

#### Environmental

##### Temperature

- C=1, 2 ..... -70°C to 260 °C (-436 to 500 °F)
- C=3 ..... -260 to 700 °C (-436 to 1292 °F)

#### Physical

- Dimensions ..... See outline drawing
- Weight ..... between 1.5 and 3 gr
- ..... between 0.05 and 0.1 Oz

#### Material

- C=1 ..... AISI 303, DIN1.4301, AFNOR Z10 CNF 18 09
- C=2 ..... AISI 316L, DIN1.4404, AFNOR Z2 CND 17 13
- C=3 ..... Nimonic 90, WNR 2.4969

#### Mounting torque

- AA=05, 15 or BB=05, 15 ..... 2 N.m (18 in-lbs)
- AA=06, 16 or BB=06, 16 ..... 2.7 N.m (24 in-lbs)

#### Outline drawing

See table below to check the associated drawing

		BB (Machine)					
		05	06	08	15	16	
AA (sensor)	05	M5x0.8	Fig 11	Fig 12		Fig 13	Fig 14
	06	M6x1	Fig 21	Fig 22	Fig 23	Fig 24	Fig 25
	15	10-32 UNF 2A	Fig 31	Fig 32		Fig 33	Fig 34
	16	1/4 28 UNF 2A	Fig 41	Fig 42	Fig 43	Fig 44	Fig 45

Drawings

Sensor end	M5	M6	10-32 UNF 2A	1/4 28 UNF 2A
Fig 11				
Fig 12				
Fig 13				
Fig 14				
Fig 15				