



## DCS™-400/SBV™-202P

### CAPACITIVE STATOR BAR VIBRATION MEASURING CHAINS

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#### GENERAL SPECIFICATIONS

**Sensors** (Complete characteristics on following pages)

##### Operation

- Measurement type Non-contact proximity, capacitive technology

##### Connection

- Integral cable
  - DCS-400 Coaxial
  - SBV-202P Triaxial
- Integral cable connector
  - DCS-400 Male, nickel-plated SMA
  - SBV-202P Male, gold-plated SMA and ground terminal

##### Environment

- Temperature range
  - Operating 0 to 125 °C [32 to 257 °F]
- Magnetic field immunity Up to 2 tesla (50 or 60 Hz)
- Dust and oil contamination Films have no effect
- Humidity Up to 95%, non-condensing

##### Physical Characteristics

- Sensor material Non-conductive and semi-conductive material
- Integral cable material FEP jacket / PTFE insulation

#### Extension Cable

##### Connection

- Cable type Triaxial
- Absolute minimum length Nominal minus 0.5 m [19.7 in]
- Connector
  - Sensor side Female, gold-plated SMA and ground terminal
  - Conditioner side Male, gold-plated SMA and ground terminal
- Minimum bending radius 10 cm [4 in]

##### Environment

- Temperature range 0 to 75 °C [32 to 167 °F]

##### Physical Characteristics

- Cable material PVC jacket / PE insulation

#### LIN™-300 Conditioner

##### Power Requirements

- Voltage 24 Vdc ±15%
- Consumption 120 mA max.
- Protection Auto-reset fuse
- Warm-up time 30 minutes

##### Connection

- Power / output 5-Pin M12 male
  - Sensor input Female, gold-plated SMA and grounding terminal
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**Environment**

- Temperature range
  - Operating 0 to 55°C [32 to 131°F]
  - Storage (measuring chain) -25 to 70°C [-13 to 158°F]

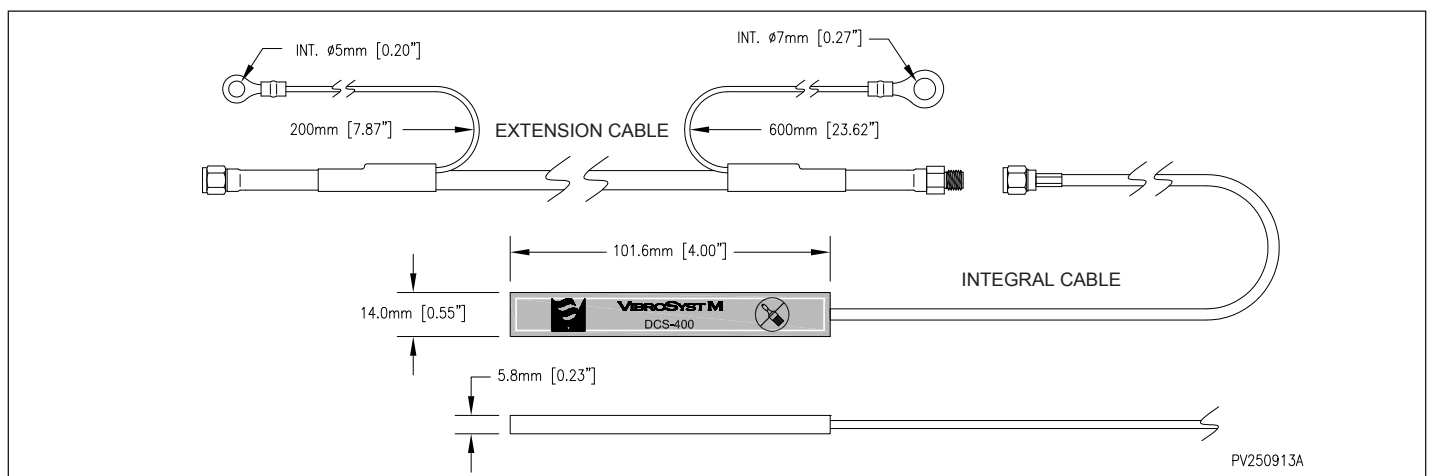
**Physical Characteristics**

- Body Nickel-plated aluminum
- Mounting 4 slots for #6 (M3.5) screws
- Max. torque on SMA 1.1 Nm [10 in-lb]
- Status indicator Bicolor LED

**SPECIFICATIONS FOR THE DCS-400 AND SBV-202P MEASURING CHAINS**

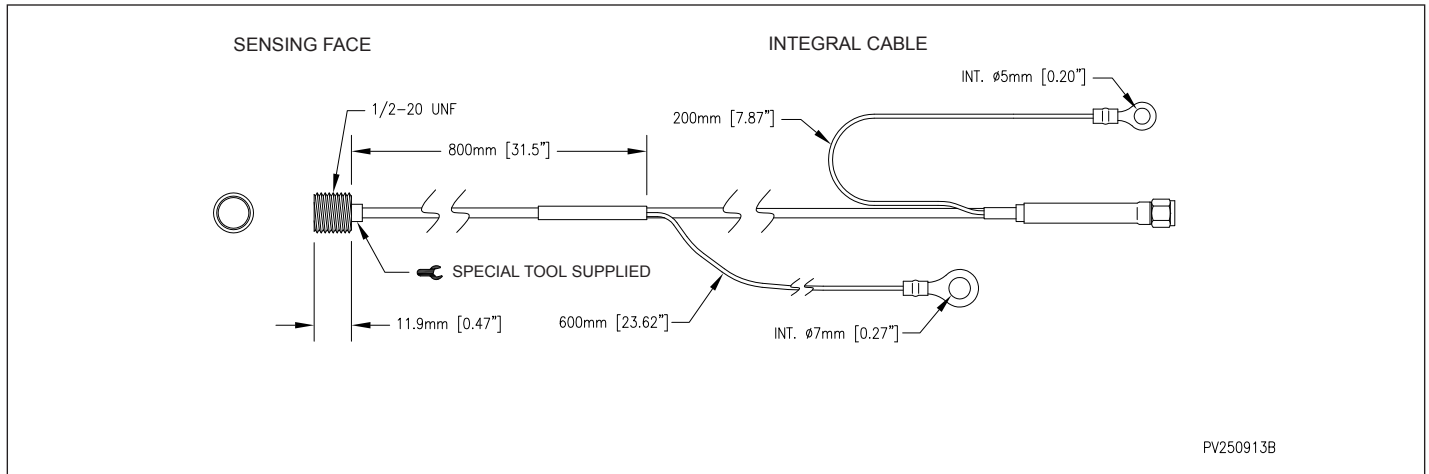
Sensor	DCS-400	SBV-202P
Nominal measuring range	0.5 to 2.5 mm [20 to 99 mils]	0.3 to 2.3 mm [12 to 91 mils]
Sensor integral cable length	40 cm [15.7 in]	6 m [19.7 ft]
Extension cable length	10 m [33 ft]	---
Conditioner model	LIN-340-10S-0.5/2.5	LIN-302VP-6I-0.3/2.3
Output	4 to 20 mA	
Bandwidth	DC to 1.2 kHz (-3 dB)	
Sensitivity	8 mA/mm [203 µA/mil]	8 mA/mm [203 µA/mil]
Accuracy (full scale)		
0 to 30 %	± 1 %	± 1 %
0 to 70 %	± 3 %	± 4 %
0 to 100 %	± 6 %	± 8 %
Repeatability (% of reading)	± 0.3 %	± 0.3 %
Temperature drift (at mid-range)	< 500 ppm/°C	< 800 ppm/°C
Load at output	500 Ω max.	

**DCS-400 - DIMENSIONS**

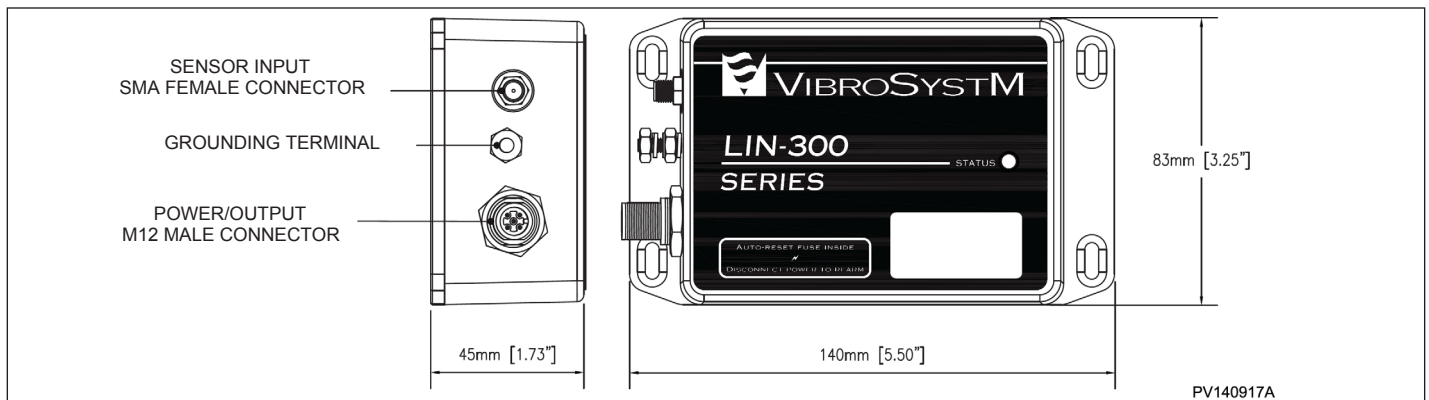




**SBV-202P - DIMENSIONS**



**LIN-300 CONDITIONER - DIMENSIONS**



**PRODUCT IDENTIFICATION**

Product Number	Description
<i>LIN-340-10 Measuring Chain</i>	
VSM-L340-DCS400-10	LIN-340-10 conditioner (0.5-2.5 mm)
VSM-CBL-DCS400	Cable / Triaxial - SMA/SMA / (10 m/32.8 ft )
VSM-DCS400	DCS-400 sensor (0.5-2.5 mm)
<i>LIN-302VP-6I Measuring Chain</i>	
VSM-L302-SBV202P	LIN-302VP-6I conditioner (0.3-2.3 mm)
VSM-SBV202P-6I	SBV-202P Capacitive sensor (6 m integral cable/0.3-2.3 mm)