



DESCRIPTION

The VM 3.2 Capacitive Sensor is a flat, noncontact type sensor which generates the necessary electric field to measure the distance between its surface and a target. The raw signal from the sensor is sent through a triaxial extension cable to the LIN™-300 Series Linearization Module to be conditioned and transmitted to a ZOOM® Processing Unit or a PCU™ Programmable Monitor.

Low profile design and high immunity make the VM 3.2 ideal for any proximity measurements in very narrow areas and harsh conditions. Its measuring range, accuracy, and reliability are unaffected by: deposits of carbon dust, dirt and oil, strong magnetic fields, EMI-RFI.

The VM 3.2 is a passive sensor, with no moving parts or active electronic elements and is compatible with most types of conductive and semi-conductive target material.

VM 3.2

Low Profile Air Gap Capacitive Sensor

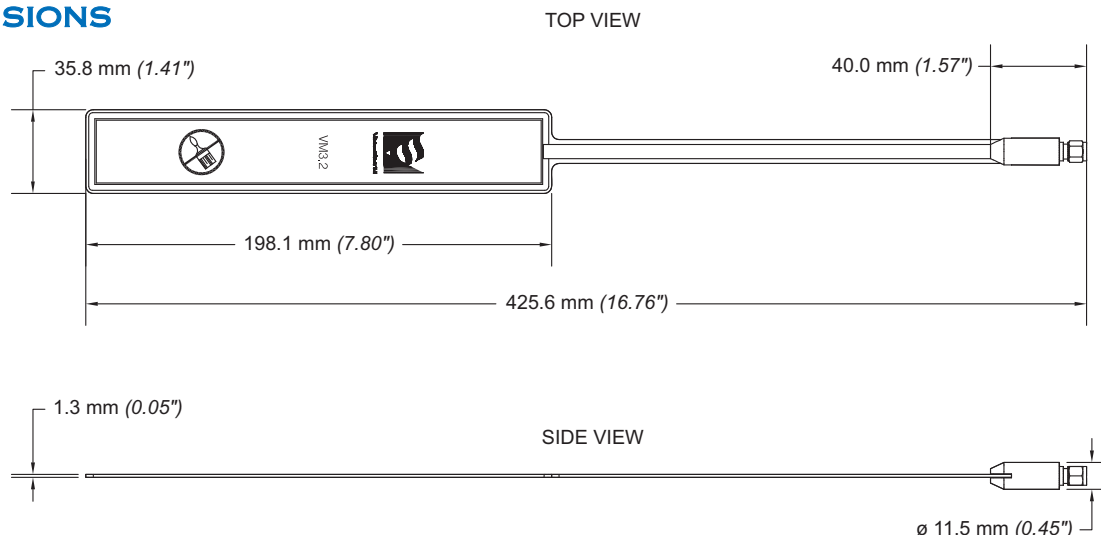
APPLICATIONS

- Air gap & proximity measurements in narrow area:
 - large electric motors
 - generators
 - exciters
- Specified for gaps less than 7 mm (*275.6 mils*)

FEATURES

- Very low profile: 1.3 mm (*51.1 mils*) thickness
- Range: 1 to 10 mm (*39.37 to 393.7 mils*)
- Used with LIN™-300 Series Linearization Module and ZOOM® Processing Unit (ZPU™) or PCU™ Programmable Monitor
- Highly immune to deposits of oil, carbon dust, and strong magnetic fields
- Easy to install on stator wall without removing the rotor or poles
- Non-contact, non-intrusive sensor
- Over 25 years of field experience

DIMENSIONS



VM 3.2 GENERAL SPECIFICATIONS

Operation

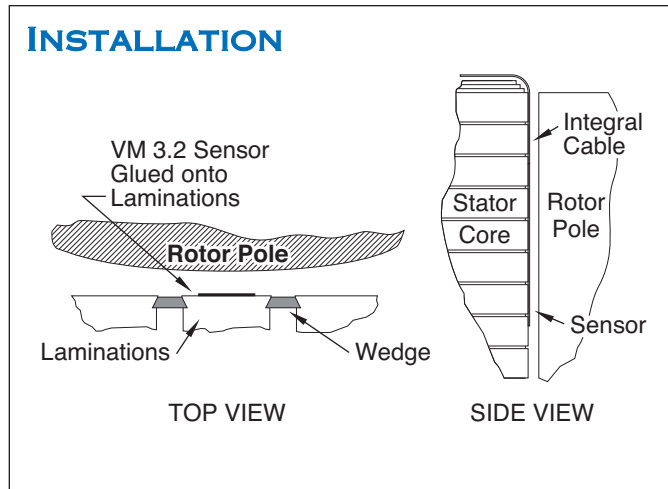
- Linear Measuring Range Determined by LIN[™] Series-300 linearization module
- Power Source 455 kHz
- Frequency Response Limited by the LIN[™]-300 Series Linearization Module
- Interchangeability $\pm 5\%$

Environmental

- Temperature Range
 - Operating -20°C to 125°C (-4°F to 257°F)
 - Storage 0°C to 85°C (32°F to 185°F)
- Magnetic Field Up to 2.0 tesla [50 Hz or 60 Hz]
- Dust and Oil Contamination Films have no effect on performance

Connection

- Integral Cable Type Flat
 - Connector SMA plug (male contact)
 - Length (with connector) 22.75 cm (8.95 in.)
- Extension Cable Type Triaxial 100% shielded
 - Connectors SMA connector female and ground lug on sensor end; Male SMA connector and ground lug on LIN[™] end
 - Length Nominal 10 m/32.8 ft
Minimum 9.5 m/31.2 ft
 - Minimum bending radius 5 cm (2.0 in.)



Physical Characteristics

- Dimensions
 - Overall Height 425.6 mm (16.76 in.)
 - Width 35.8 mm (1.41 in.)
 - Thickness 1.3 mm (0.05 in.)
 - Connector diameter 11.5 mm (0.45 in.)
- Weight 18 grams (0.6 oz)

VibroSystM reserves the right to change specifications to improve products without notification.
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