



MFP-100™

Magnetic Flux Sensor for Turbo-Generators

The MFP-100 sensor for turbo-generators is designed to measure magnetic imbalances caused by interturn short-circuits in rotors that contribute to machine vibration, overheating, and excessive stress on rotor and stator components. The received signal is sent to an SFA-100™ acquisition unit where the magnetic flux is analyzed to determine if there is in fact a presence of short circuits in the rotor windings.

General Specifications

Operation

- Output: Magnetic Flux to Voltage
- Interchangeability: < 1% F.S.R.
- Short Circuit Protection: Built-in

Connection

- Integral Cable
 - Type: Shielded Twisted Pair
 - Connector: M12 Shielded, Straight Male (Field Assembly Required)
- Max. Cable Length (Integral + Extension): 100 m [328 ft]

Environment

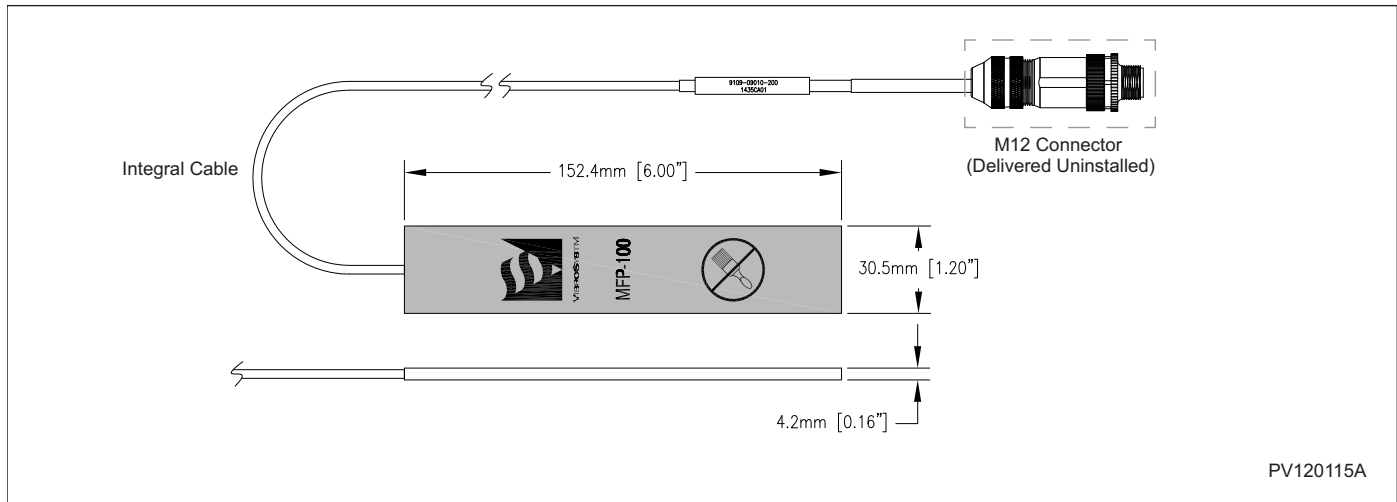
- Temperature Range
 - Operating: 0 to 125°C [32 to 257°F]

Physical Characteristics

- Sensor Material: Glass-Reinforced Epoxy
- Outer Jacket Material: Teflon®
- Integral Cable
 - Diameter: 2.9 mm [114 mils]
 - Length: 10 m [32.8 ft]

Dimensions

F.S.R.: Calculated on a full scale range



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