PR9268/301-000

Epro / Horizontal Electrodynamic Velocity Sensor

Epro PR9268/301-000 is a horizontal electrodynamic velocity transducer for absolute casing or bearing-housing vibration monitoring.

Overview

The PR9268/30x sensing execution uses a moving-coil electrodynamic principle to produce a vibration-velocity signal without an external sensor supply. Its horizontal orientation is relevant to both calibration and field mounting; the housing motion must align with the intended sensitive axis.

A suitable monitor can use this signal for casing-vibration trend and protection on turbomachinery. The PR9268/30x frequency and sensitivity figures apply to this sensor family; the complete 301-000 suffix and connector arrangement should be checked against the physical supplied unit.

Technical specification matrix

Sensor family	PR9268 electrodynamic velocity
Measurement direction	Horizontal, PR9268/30x execution
Mounting tolerance	±10° from horizontal
Sensitivity	28.5 mV/mm/s, PR9268/30x family
Frequency range	4–1,000 Hz, PR9268/30x family
Power	Self-powered
Protection	IP55, PR9268/30x family
Operating temperature	–20 to +100 °C, PR9268/30x family

Applications and system fit

Turbine bearing housing

Monitor absolute horizontal vibration at a rigid bearing point with a suitable velocity input.

Compressor casing

Feed vibration-velocity signals to a configured machine-protection or condition-monitoring channel.

Pump casing trend Compare operating vibration at a repeatable casing location and orientation.	**Fan vibration assessment** Track housing movement in the intended horizontal axis using a compatible monitor.

Product precautions

Confirm the full suffix Match PR9268/301-000 to the supplied label and installed termination before changing the channel.	**Preserve the axis** Fit the sensing direction within the documented horizontal orientation tolerance.
Prepare the mounting face Use a clean, rigid surface so structural looseness does not distort the reading.	**Check input loading** Match the sensor signal and cable to the approved monitor input.

Source and application boundary

Emerson PR9268 Specifications Sheet, Electrodynamic Velocity Sensor, December 2024.

PR9268/30x family performance is applicable to the horizontal sensing execution. Confirm 301-000 suffix and supplied connector details from the physical item.

Related product references

Separate product listings for project review; confirm each order code and system fit independently.

EPRO PR6423/010-010	EPRO PR6423/10R-010

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Send the complete model and installed-system details when requesting a quotation.