

**Emerson - PR9268**

# PR9268-301-100

Horizontal Electrodynamic Velocity Sensor

**Verified model data**

|                       |                                           |
|-----------------------|-------------------------------------------|
| Manufacturer          | Emerson                                   |
| Part number           | PR9268-301-100                            |
| Official designation  | PR9268/301-100                            |
| Product family        | PR9268 electrodynamic velocity sensors    |
| Product type          | horizontal electrodynamic velocity sensor |
| Mounting orientation  | Horizontal                                |
| Cable                 | 5 m armored cable, open end               |
| Sensitivity           | 28.5 mV/mm/s                              |
| Frequency range       | 4 to 1000 Hz                              |
| Linearity             | Below 2%                                  |
| Operating temperature | -20 to 100°C                              |

**Selection summary**

Emerson PR9268-301-100 converts case vibration velocity into a self-generated electrical signal for machinery monitoring and protection.

The exact order code defines the horizontal suspension and a 5 m armored cable with open conductors, so mounting direction and terminal practice are part of the selection.

Before installation, verify the measurement direction, rigid mounting surface, receiving-channel sensitivity and bandwidth, cable support, polarity, shield termination and the expected machine-frequency range.

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## Additional verified data

|                       |         |
|-----------------------|---------|
| Protection class      | IP55    |
| Transducer net weight | 0.93 kg |

## Orientation

- Mount the sensor in the documented horizontal direction
- Use a rigid, clean and flat machine surface
- Keep cable forces from preloading the sensing body

## Signal Interface

- Use a velocity-sensor input with the documented sensitivity
- Confirm polarity, shield reference and terminal mapping
- Check the usable frequency band against the machine fault frequencies

## Mounting and Baseline

- Inspect cable support and armor before energizing the monitor
- Establish a zero-speed and normal-running baseline
- Prove alarms after the raw signal is stable

## Application checkpoints

- Case-vibration monitoring on turbines
- Bearing-housing vibration monitoring on compressors
- Velocity-based protection of pumps and fans

Evidence boundary: The official document publishes a transducer weight of 0.93 kg. Its drawing was checked, but the exact complete order code is not stated as one simple  $W \times H \times D$  envelope; the Dimensions backend field remains blank rather than converting local drawing dimensions into a false cuboid.

Source basis: Emerson PR9268/20x and PR9268/30x Specifications Sheet.