Emerson - PR9268

PR9268-302-100

Horizontal Electrodynamic Velocity Sensor

Verified model data

Manufacturer	Emerson
Part number	PR9268-302-100
Official designation	PR9268/302-100
Product family	PR9268 electrodynamic velocity sensors
Product type	horizontal electrodynamic velocity sensor
Mounting orientation	Horizontal
Cable	8 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 PR9268-302-100 converts case vibration velocity into a self-generated electrical signal for machinery monitoring and protection.

The exact order code defines the horizontal suspension and an 8 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

Long Cable Practice

- 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 × H × 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.

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