

INDUSTRIAL AUTOMATION PRODUCT

PR9268-201-100

PR9268 electrodynamic velocity sensor

Self-generated electrodynamic voltage proportional to absolute vibration velocity

IDENTITY	VERIFIED VALUE
Manufacturer	Emerson
System family	PR9268 vertical case-seismic measurement
Part number	PR9268-201-100
Country	USA
HS code	8537101190

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Technical Specifications

Technical values below are limited to the named Emerson product record.

PARAMETER	TECHNICAL VALUE
Measuring orientation	Vertical; up to 100 degC
Cable construction	Armored
Cable length	5 m
Cable termination	Open ends
Frequency range	4 to 1000 Hz
Natural frequency	4.5 +/-0.75 Hz at 20 degC
Sensitivity	28.5 mV/(mm/s) +/-5%
Damping	0.56 at 20 degC; 0.42 at 100 degC
Measuring-circuit resistance	1875 Ohm +/-10%
Insulation resistance	>1 MOhm at 500 V AC
Inductance	<90 mH
Capacitance to housing	<1.2 nF including cable
Maximum lifting/sinking current	1.8 mA
Operating temperature	-20 to +100 degC
Ingress protection	IP55
Minimum cable bend radius	35 mm

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System Role and Architecture

Self-generated electrodynamic voltage proportional to absolute vibration velocity

FUNCTION 1

Configured for vertical measurement positions

FUNCTION 2

Uses an armored five-metre open-ended cable

FUNCTION 3

Produces 28.5 mV per mm/s nominal sensitivity

FUNCTION 4

Covers low-frequency case motion through 1 kHz

Matched system components

- AMS 6500 A6120 monitor or compatible input
- Rigid machine-case mounting pad
- Open-end field termination
- Protection and trending configuration

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	AMS 6500 A6120 monitor or compatible input
Companion hardware	Rigid machine-case mounting pad
Field connection	Open-end field termination
Primary system function	Configured for vertical measurement positions
Controlled acceptance duty	Vertical bearing-housing vibration

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Applications and Engineering Context

Vertical bearing-housing vibration

Configured for vertical measurement positions

Hydro-generator case motion

Uses an armored five-metre open-ended cable

Large fan and pump monitoring

Produces 28.5 mV per mm/s nominal sensitivity

Turbine support-structure vibration

Covers low-frequency case motion through 1 kHz

TECHNICAL NOTE

Mount on a clean rigid surface in the documented vertical orientation, support the five-metre armored lead, preserve polarity and verify the monitor input response before service.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	PR9268-201-100 / PR9268-201-100 recorded
Physical interface	AMS 6500 A6120 monitor or compatible input
Companion check	Rigid machine-case mounting pad
Functional proof	Configured for vertical measurement positions
Application test	Vertical bearing-housing vibration

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Engineering Precautions

1

Confirm the full PR9268-201-100 marking, vertical measuring orientation and assigned machine location before removal.

2

Place the monitored machine and protection logic in the approved maintenance state before sensor work.

3

Use the three M6 through bores or M4 blind-hole threads without exceeding the documented 10 mm blind-thread depth.

4

Support the 5 m armored cable and maintain at least the documented 35 mm bending radius.

5

Preserve the measuring axis and housing contact surface; do not introduce tilt, rocking or loose mounting.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
PR6424-000-041-CON041	Related Emerson product	View PR6424-000-041-CON041 page
KJ4001X1-BE1-12P0818X072...	Related Emerson product	View KJ4001X1-BE1-12P0818X072... page
SP4401	Related Emerson product	View SP4401 page
SP3401	Related Emerson product	View SP3401 page
12P4705X062	Related Emerson product	View 12P4705X062 page
EZ1000	Related Emerson product	View EZ1000 page
KJ3222X1-BA1-12P2532X112...	Related Emerson product	View KJ3222X1-BA1-12P2532X112... page
KJ3221X1-BA1-12P2531X122...	Related Emerson product	View KJ3221X1-BA1-12P2531X122... page

MANUFACTURER SOURCE RECORD

Emerson PR9268 Electrodynamic Velocity Sensor Installation Guide and Product Data Sheet

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