APTER POWER

PRODUCT TECHNICAL REFERENCE

INDUSTRIAL AUTOMATION PRODUCT

PR9268-202-100

PR9268 electrodynamic velocity sensor

Self-generated electrodynamic voltage proportional to vertical vibration velocity

IDENTITY	VERIFIED VALUE
Manufacturer	Emerson
System family	PR9268 vertical case-seismic measurement
Part number	PR9268-202-100
Country	USA
HS code	8537101190

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2 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	8 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

3 System Role and Architecture

Self-generated electrodynamic voltage proportional to vertical vibration velocity

FUNCTION 1

Designed for vertical measuring points

FUNCTION 2

Uses an eight-metre armored connection

FUNCTION 3

Maintains nominal 28.5 mV per mm/s sensitivity

FUNCTION 4

Operates across 4 to 1000 Hz

Matched system components

- AMS 6500 A6120 monitor
- Vertical case mounting pad
- Open-end cabinet termination
- Approved velocity-channel configuration

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	AMS 6500 A6120 monitor
Companion hardware	Vertical case mounting pad
Field connection	Open-end cabinet termination
Primary system function	Designed for vertical measuring points
Controlled acceptance duty	Vertical pump casing vibration

4 Applications and Engineering Context

Vertical pump casing vibration

Designed for vertical measuring points

Hydro-turbine support monitoring

Uses an eight-metre armored connection

Remote generator bearing points

Maintains nominal 28.5 mV per mm/s sensitivity

Long-route case-seismic protection

Operates across 4 to 1000 Hz

TECHNICAL NOTE

Confirm vertical orientation, eight-metre cable routing, base flatness and conductor polarity; verify the channel at controlled machine speed before protection release.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	PR9268-202-100 / PR9268-202-100 recorded
Physical interface	AMS 6500 A6120 monitor
Companion check	Vertical case mounting pad
Functional proof	Designed for vertical measuring points
Application test	Vertical pump casing vibration

5 Engineering Precautions

1. Confirm the full PR9268-202-100 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 8 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
ES0350-M1A05L-27N0	Related Emerson product	View ES0350-M1A05L-27N0 page
960177-02	Related Emerson product	View 960177-02 page
KJ2003X1-BB1	Related Emerson product	View KJ2003X1-BB1 page
EC3-X33	Related Emerson product	View EC3-X33 page
FX-340	Related Emerson product	View FX-340 page
7379A31G04	Related Emerson product	View 7379A31G04 page
KJ3224X1-EA1-12P4367X022	Related Emerson product	View KJ3224X1-EA1-12P4367X022 page
FSROC-EXP-EXP	Related Emerson product	View FSROC-EXP-EXP page

MANUFACTURER SOURCE RECORD

Emerson PR9268 Electrodynamic Velocity Sensor Installation Guide and Product Data Sheet

MHM-97479 Rev. 3.9, February 2025

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