

INDUSTRIAL AUTOMATION PRODUCT

PR9268-301-100

PR9268 electrodynamic velocity sensor

Self-generated electrodynamic voltage proportional to horizontal vibration velocity

IDENTITY	VERIFIED VALUE
Manufacturer	Emerson
System family	PR9268 horizontal case-seismic measurement
Part number	PR9268-301-100
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	Horizontal; 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 horizontal vibration velocity

FUNCTION 1

Designed for horizontal measuring axes

FUNCTION 2

Includes a five-metre armored open-ended lead

FUNCTION 3

Operates without an external transducer supply

FUNCTION 4

Supports absolute vibration velocity measurement

Matched system components

- AMS 6500 A6120 or compatible monitor
- Horizontal machine-case mounting point
- Field terminal and shield arrangement
- Velocity alarm and trend configuration

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	AMS 6500 A6120 or compatible monitor
Companion hardware	Horizontal machine-case mounting point
Field connection	Field terminal and shield arrangement
Primary system function	Designed for horizontal measuring axes
Controlled acceptance duty	Horizontal turbine casing vibration

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Applications and Engineering Context

Horizontal turbine casing vibration

Designed for horizontal measuring axes

Compressor bearing-housing monitoring

Includes a five-metre armored open-ended lead

Motor and gearbox case motion

Operates without an external transducer supply

Balance-of-plant protection

Supports absolute vibration velocity measurement

TECHNICAL NOTE

Align the sensing axis horizontally, maintain full base contact, support the five-metre cable and verify polarity plus channel scaling before automatic protection is restored.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	PR9268-301-100 / PR9268-301-100 recorded
Physical interface	AMS 6500 A6120 or compatible monitor
Companion check	Horizontal machine-case mounting point
Functional proof	Designed for horizontal measuring axes
Application test	Horizontal turbine casing vibration

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Engineering Precautions

- 1 Confirm the full PR9268-301-100 marking, horizontal 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
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-EA1-12P4367 X022	Related Emerson product	View KJ3224X1-EA1-12P4367X022 page
FSROC-EXP-EXP	Related Emerson product	View FSROC-EXP-EXP page
A6560	Related Emerson product	View A6560 page

MANUFACTURER SOURCE RECORD

Emerson PR9268 Electrodynamic Velocity Sensor Installation Guide and Product Data Sheet

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