

INDUSTRIAL AUTOMATION PRODUCT

PR9268-302-100

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	PR9268-302-100
Country	USA
HS code	8537101190

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



2

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	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 horizontal vibration velocity

FUNCTION 1

Configured for horizontal installation

FUNCTION 2

Extends the armored connection to eight metres

FUNCTION 3

Maintains 4 to 1000 Hz measurement bandwidth

FUNCTION 4

Provides an open-ended field cable

Matched system components

- A6120 case-seismic monitor
- Rigid horizontal mounting surface
- Eight-metre cable route
- Shielded field termination

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	A6120 case-seismic monitor
Companion hardware	Rigid horizontal mounting surface
Field connection	Eight-metre cable route
Primary system function	Configured for horizontal installation
Controlled acceptance duty	Remote horizontal bearing points

4

Applications and Engineering Context

Remote horizontal bearing points

Configured for horizontal installation

Large compressor case monitoring

Extends the armored connection to eight metres

Gearbox foundation vibration

Maintains 4 to 1000 Hz measurement bandwidth

Long-route turbine instrumentation

Provides an open-ended field cable

TECHNICAL NOTE

Verify the longer eight-metre route, horizontal axis, cable support and conductor identity; commission with controlled machine speed and recorded channel response.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	PR9268-302-100 / PR9268-302-100 recorded
Physical interface	A6120 case-seismic monitor
Companion check	Rigid horizontal mounting surface
Functional proof	Configured for horizontal installation
Application test	Remote horizontal bearing points

5

Engineering Precautions

- 1 Confirm the full PR9268-302-100 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 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
KJ2201X1-BA1	Related Emerson product	View KJ2201X1-BA1 page
3900-02-10	Related Emerson product	View 3900-02-10 page
396P-02-12-55	Related Emerson product	View 396P-02-12-55 page
396P-08-10-55	Related Emerson product	View 396P-08-10-55 page
KJ3002X1-BG2-12P1731X062	Related Emerson product	View KJ3002X1-BG2-12P1731X062 page
KJ3002X1-BB1-12P0683X082	Related Emerson product	View KJ3002X1-BB1-12P0683X082 page
KJ3001X1-BB1-12P0550X142	Related Emerson product	View KJ3001X1-BB1-12P0550X142 page
PR6423-00R-101-CON031	Related Emerson product	View PR6423-00R-101-CON031 page

MANUFACTURER SOURCE RECORD

Emerson PR9268 Electrodynamic Velocity Sensor Installation Guide and Product Data Sheet

MHM-97479 Rev. 3.9, February 2025

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com

