

PR9268-302-100

PR9268 electrodynamic velocity sensor

Self-generated electrodynamic voltage proportional to horizontal vibration velocity

PRODUCT SNAPSHOT

BRAND

Emerson

FAMILY

PR9268 horizontal case-seismic measurement

PART

PR9268-302-100

ORIGIN / HS

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PRODUCT OVERVIEW

Self-generated electrodynamic voltage proportional to horizontal vibration velocity

1

Configured for horizontal installation

2

Extends the armored connection to eight metres

3

Maintains 4 to 1000 Hz measurement bandwidth

4

Provides an open-ended field cable

SYSTEM COMPONENTS

A6120 case-seismic monitor

Rigid horizontal mounting surface

Eight-metre cable route

Shielded field termination

TECHNICAL NOTE

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

TECHNICAL DATA

PARAMETER	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

PARAMETER	VALUE
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

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
1X01046H01L	Related Emerson product	View 1X01046H01L page
PR6426-000-131-CON041	Related Emerson product	View PR6426-000-131-CON041 page
PR6426-010-140	Related Emerson product	View PR6426-010-140 page
1X00781H01L	Related Emerson product	View 1X00781H01L page
38B6041X152	Related Emerson product	View 38B6041X152 page
38B5786X092	Related Emerson product	View 38B5786X092 page
PR6423-003-130-CON021	Related Emerson product	View PR6423-003-130-CON021 page
5X00226G04	Related Emerson product	View 5X00226G04 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

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

PRODUCT 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.
- 6 Identify both open-ended cable conductors and preserve shield and polarity continuity to the monitor channel.
- 7 Measure the sensor circuit and insulation condition before reconnecting it to the monitoring input.
- 8 Run the machine under controlled conditions and verify velocity response, phase behavior and alarm logic.

ENGINEER FAQ

Q1 Does PR9268-302-100 match A6120 case-seismic monitor in a Remote horizontal bearing points installation?

Verify the complete PR9268-302-100 marking, the documented PR9268 horizontal case-seismic measurement position and the installed A6120 case-seismic monitor before fitting the assembly.

Q2 How should PR9268-302-100 be wired when it must configured for horizontal installation?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for PR9268-302-100; then continuity-test the affected path.

Q3 Which PR9268 horizontal case-seismic measurement records should be captured before removing PR9268-302-100?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with PR9268-302-100 before disconnection.

Q4 What controlled test confirms that PR9268-302-100 can extends the armored connection to eight metres?

Apply the approved field or simulated stimulus, observe the PR9268 horizontal case-seismic measurement indication and confirm the intended response without bypassing the normal interlocks.

Q5 Which Rigid horizontal mounting surface condition should be checked when PR9268-302-100 reports an abnormal state?

Check the Rigid horizontal mounting surface supply, seating and connection first, then compare channel diagnostics with the recorded PR9268-302-100 baseline.

Q6 Can PR9268-302-100 be moved directly into Large compressor case monitoring without validating Shielded field termination?

No. Confirm the Shielded field termination, revision, connection scheme and PR9268 horizontal case-seismic measurement configuration before transferring PR9268-302-100 to that duty.

Q7 What maintenance evidence is required after PR9268-302-100 is used for Gearbox foundation vibration?

Retain the nameplate record, corrective action, final diagnostics and a controlled gearbox foundation vibration functional-test result for PR9268-302-100.

Q8 How should PR9268-302-100 be returned to service in Long-route turbine instrumentation?

Restore power under control, verify maintains 4 to 1000 hz measurement bandwidth, exercise the intended signal path and release PR9268-302-100 only after the PR9268 horizontal case-seismic measurement remains in its approved operating state.

SOURCE Emerson PR9268 Electrodynamic Velocity Sensor Installation Guide and Product Data Sheet | MHM-97479
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