

PR6426-000-030

PR6426 large-range eddy-current displacement sensor

Non-contact eddy-current displacement measurement of a conductive shaft or target

PRODUCT SNAPSHOT

BRAND

Emerson

FAMILY

Emerson PR6426 32 mm eddy-current measurem

PART

PR6426-000-030

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PRODUCT OVERVIEW

Non-contact eddy-current displacement measurement of a conductive shaft or target

1

Provides an eight-millimetre nominal static span

2

Mounts through an 80 x 40 mm plate

3

Uses an eight-metre unarmored lead

4

Connects to a PR6426-calibrated converter

SYSTEM COMPONENTS

PR6426-configured CON021 or CON041

80 x 40 mm mounting plate

Large conductive target

Compatible position-monitoring channel

TECHNICAL NOTE

Verify mounting-plate flatness, the eight-metre cable system and PR6426 converter calibration; set the larger gap only after the target and bracket are mechanically stable.

TECHNICAL DATA

PARAMETER	VALUE
Sensor family	PR6426
Sleeve thread	None
Armor	No
Mounting plate	80 x 40 mm
Adapter plug	Included
Total cable length	8 m
Cable end	LEMO

PARAMETER	VALUE
Static nominal range	+/-4.0 mm
Sensitivity	2 V/mm
Nominal distance center	Approximately 5.5 mm
Basic air gap	1.2 to 1.8 mm
Operating temperature	-35 to +150 degC
Vibration endurance	5 g at 60 Hz

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
KJ2005X1-BK1-C2-A0SE3007	Related Emerson product	View KJ2005X1-BK1-C2-A0SE3007 page
8752-CA-NS-02	Related Emerson product	View 8752-CA-NS-02 page
KJ3241X1-BA1-12P2506X062	Related Emerson product	View KJ3241X1-BA1-12P2506X062 page
38B6041X082	Related Emerson product	View 38B6041X082 page
KJ3222X1-BA1-12P2532X092...	Related Emerson product	View KJ3222X1-BA1-12P2532X092... page
PR6424-013-140-CON021-91...	Related Emerson product	View PR6424-013-140-CON021-91... 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

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Large axial-displacement measurement

Provides an eight-millimetre nominal static span

Valve and actuator position

Mounts through an 80 x 40 mm plate

Large-clearance shaft position

Uses an eight-metre unarmored lead

Slow mechanical movement monitoring

Connects to a PR6426-calibrated converter

PRODUCT PRECAUTIONS

- 1 Verify the complete PR6426-000-030 order code, 80 x 40 mm mounting plate mounting interface and assigned PR6426 32 mm eddy-current system measuring point before work.
- 2 Place the monitored machine and its protection channel in the approved maintenance state before disturbing PR6426-000-030.
- 3 Protect the probe tip from impact and keep the mounting thread and bracket free from burrs or contamination.
- 4 Route the 8 m sensor lead without sharp bends, crushing, tensile load or contact with hot and moving surfaces.
- 5 Keep the LEMO or open-end connection clean, dry and fully identified before reconnecting the measurement loop.
- 6 Confirm the paired signal converter or monitor input, cable length and target material match the documented measuring chain.
- 7 Set the static gap within the documented linear region while preserving shaft and probe mechanical clearance.
- 8 Prove polarity, static gap, dynamic response and alarm action before returning the protection channel to service.

ENGINEER FAQ

Q1 Does PR6426-000-030 match PR6426-configured CON021 or CON041 in a Large axial-displacement measurement installation?

Verify the complete PR6426-000-030 marking, the documented Emerson PR6426 32 mm eddy-current measurement system position and the installed PR6426-configured CON021 or CON041 before fitting the assembly.

Q2 How should PR6426-000-030 be wired when it must provides an eight-millimetre nominal static span?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for PR6426-000-030; then continuity-test the affected path.

Q3 Which Emerson PR6426 32 mm eddy-current measurement system records should be captured before removing PR6426-000-030?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with PR6426-000-030 before disconnection.

Q4 What controlled test confirms that PR6426-000-030 can mounts through an 80 x 40 mm plate?

Apply the approved field or simulated stimulus, observe the Emerson PR6426 32 mm eddy-current measurement system indication and confirm the intended response without bypassing the normal interlocks.

Q5 Which 80 x 40 mm mounting plate condition should be checked when PR6426-000-030 reports an abnormal state?

Check the 80 x 40 mm mounting plate supply, seating and connection first, then compare channel diagnostics with the recorded PR6426-000-030 baseline.

Q6 Can PR6426-000-030 be moved directly into Valve and actuator position without validating Compatible position-monitoring channel?

No. Confirm the Compatible position-monitoring channel, revision, connection scheme and Emerson PR6426 32 mm eddy-current measurement system configuration before transferring PR6426-000-030 to that duty.

Q7 What maintenance evidence is required after PR6426-000-030 is used for Large-clearance shaft position?

Retain the nameplate record, corrective action, final diagnostics and a controlled large-clearance shaft position functional-test result for PR6426-000-030.

Q8 How should PR6426-000-030 be returned to service in Slow mechanical movement monitoring?

Restore power under control, verify uses an eight-metre unarmored lead, exercise the intended signal path and release PR6426-000-030 only after the Emerson PR6426 32 mm eddy-current measurement system remains in its approved operating state.

SOURCE Emerson PR642x Eddy Current Sensor Installation Guide | MHM-97857 Rev. 1.11, January 2026

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