

PR6426-010-140

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

PR6426-010-140

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PRODUCT OVERVIEW

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

1

Protects the large-range probe lead with armor

2

Provides a ten-metre system cable

3

Uses an 80 x 40 mm mounting plate

4

Requires separate documented adapter hardware

SYSTEM COMPONENTS

PR6426-compatible converter

Rigid 80 x 40 mm mounting surface

Ten-metre armored route

Installed adapter and LEMO connection

TECHNICAL NOTE

Confirm the separate adapter, mounting-plate alignment, ten-metre armored route and PR6426 range; verify the complete large-gap response before enabling protection.

TECHNICAL DATA

PARAMETER	VALUE
Sensor family	PR6426
Sleeve thread	None
Armor	Yes
Mounting plate	80 x 40 mm
Adapter plug	Not included
Total cable length	10 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
5X00121G01	Related Emerson product	View 5X00121G01 page
5X00119G01	Related Emerson product	View 5X00119G01 page
KJ3222X1-BA1-12P2532X122	Related Emerson product	View KJ3222X1-BA1-12P2532X122 page
KJ4006X1-BD1	Related Emerson product	View KJ4006X1-BD1 page
KC4011X1-BZ1	Related Emerson product	View KC4011X1-BZ1 page
KC4011X1-BW1	Related Emerson product	View KC4011X1-BW1 page
KJ2201X1-BA1	Related Emerson product	View KJ2201X1-BA1 page
3900-02-10	Related Emerson product	View 3900-02-10 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Remote large-gap position loops

Protects the large-range probe lead with armor

Long-run expansion monitoring

Provides a ten-metre system cable

Heavy-machine axial displacement

Uses an 80 x 40 mm mounting plate

Armored actuator-position measurement

Requires separate documented adapter hardware

PRODUCT PRECAUTIONS

- 1 Verify the complete PR6426-010-140 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 PR6426-010-140.
- 3 Protect the probe tip from impact and keep the mounting thread and bracket free from burrs or contamination.
- 4 Route the 10 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 PR6426-010-140 match PR6426-compatible converter in a Remote large-gap position loops installation?

Verify the complete PR6426-010-140 marking, the documented Emerson PR6426 32 mm eddy-current measurement system position and the installed PR6426-compatible converter before fitting the assembly.

Q3 Which Emerson PR6426 32 mm eddy-current measurement system records should be captured before removing PR6426-010-140?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with PR6426-010-140 before disconnection.

Q5 Which Rigid 80 x 40 mm mounting surface condition should be checked when PR6426-010-140 reports an abnormal state?

Check the Rigid 80 x 40 mm mounting surface supply, seating and connection first, then compare channel diagnostics with the recorded PR6426-010-140 baseline.

Q7 What maintenance evidence is required after PR6426-010-140 is used for Heavy-machine axial displacement?

Retain the nameplate record, corrective action, final diagnostics and a controlled heavy-machine axial displacement functional-test result for PR6426-010-140.

Q2 How should PR6426-010-140 be wired when it must protect the large-range probe lead with armor?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for PR6426-010-140; then continuity-test the affected path.

Q4 What controlled test confirms that PR6426-010-140 can provide a ten-metre system cable?

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.

Q6 Can PR6426-010-140 be moved directly into Long-run expansion monitoring without validating Installed adapter and LEMO connection?

No. Confirm the Installed adapter and LEMO connection, revision, connection scheme and Emerson PR6426 32 mm eddy-current measurement system configuration before transferring PR6426-010-140 to that duty.

Q8 How should PR6426-010-140 be returned to service in Armored actuator-position measurement?

Restore power under control, verify uses an 80 x 40 mm mounting plate, exercise the intended signal path and release PR6426-010-140 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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