

PR6426-010-140

PR6426 large-range eddy-current displacement sensor

CONTROLLED ENGINEERING COPY

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

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	PR6426-010-140
Manufacturer part	PR6426-010-140
Hardware type	PR6426
System family	Emerson PR6426 32 mm eddy-current measurement system



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01 PRE-INSTALLATION PLAN

- 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.

MATCHED HARDWARE

- PR6426-compatible converter
- Rigid 80 x 40 mm mounting surface
- Ten-metre armored route
- Installed adapter and LEMO connection

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	PR6426-010-140 / PR6426-010-140 recorded
Physical interface	PR6426-compatible converter
Companion check	Rigid 80 x 40 mm mounting surface
Functional proof	Protects the large-range probe lead with armor
Application test	Remote large-gap position loops

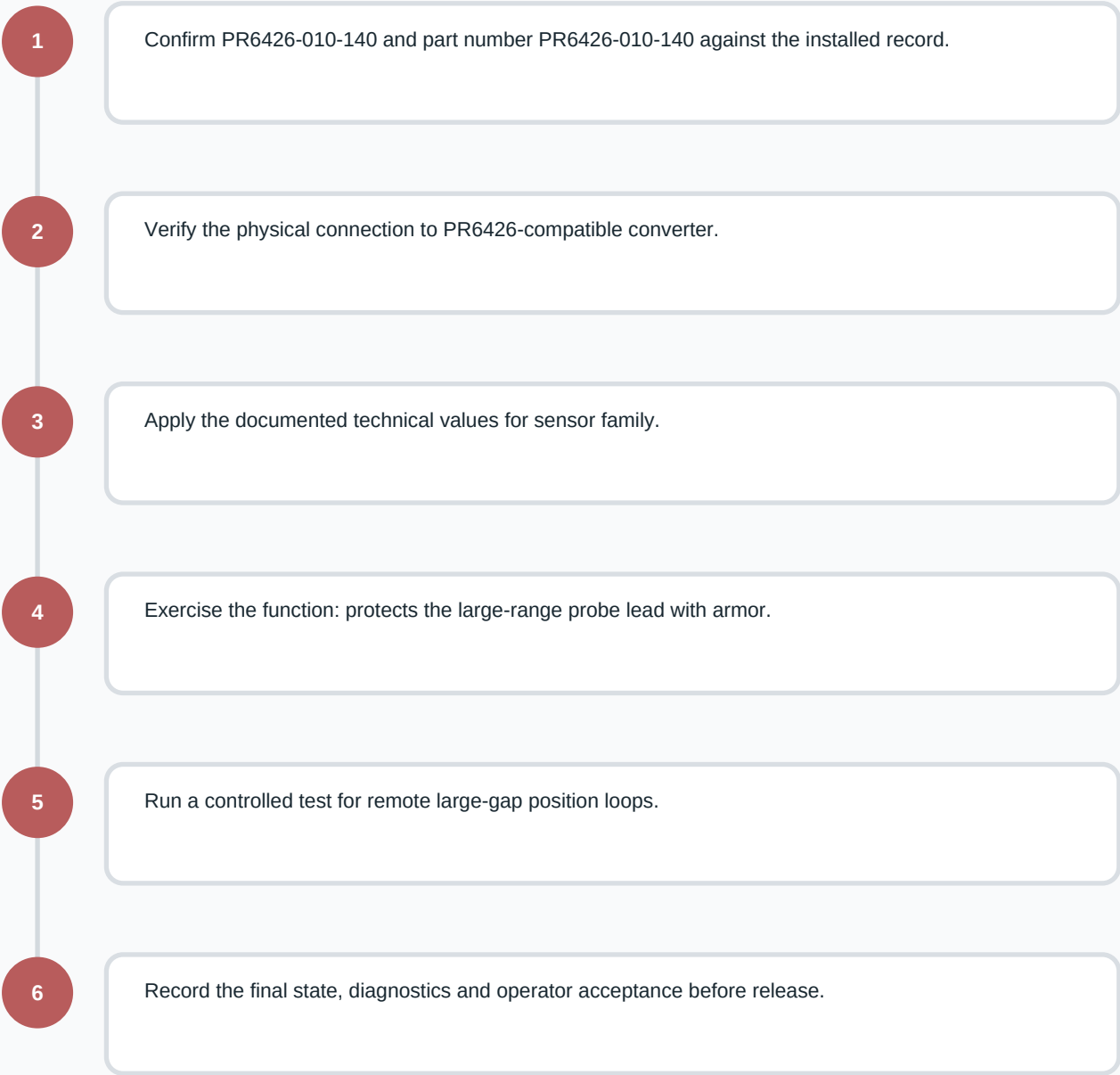
02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED 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
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

FIELD NOTE

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

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	PR6426-010-140 / PR6426-010-140 recorded
Physical interface	PR6426-compatible converter
Companion check	Rigid 80 x 40 mm mounting surface
Functional proof	Protects the large-range probe lead with armor
Application test	Remote large-gap position loops

04 RETURN-TO-SERVICE RECORD

- ☐ Confirm the paired signal converter or monitor input, cable length and target material match the documented measuring chain.
- ☐ Set the static gap within the documented linear region while preserving shaft and probe mechanical clearance.
- ☐ Prove polarity, static gap, dynamic response and alarm action before returning the protection channel to service.
- ☐ Confirm the intended process response before normal operation.

VERIFICATION RECORD

PRODUCT IDENTITY	PR6426-010-140
INSTALLED POSITION	Documented Emerson PR6426 32 mm eddy-current measurement system position
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
KJ3224X1-EA1-12P4367X022	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
A6120	Related Emerson product	View A6120 page
A6312-06	Related Emerson product	View A6312-06 page
IC695CPE330	Related Emerson product	View IC695CPE330 page
A6210	Related Emerson product	View A6210 page
A6110	Related Emerson product	View A6110 page

SOURCE IDENTIFIERS

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

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