

PR6423-10R-010

PR6423 reverse-mount 8 mm eddy-current displacement sensor

CONTROLLED ENGINEERING COPY

Confirm reverse-mount clearance and 3/8-24 UNF engagement, support the five-metre lead and verify probe polarity plus gap response after mechanical tightening.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	PR6423-10R-010
Manufacturer part	PR6423-10R-010
Hardware type	PR6423
System family	Emerson PR6423 8 mm eddy-current measurement system



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01 PRE-INSTALLATION PLAN

- 1

Verify the complete PR6423-10R-010 order code, 3/8-24 UNF-2A reverse mount mounting interface and assigned PR6423 8 mm eddy-current system measuring point before work.
- 2

Place the monitored machine and its protection channel in the approved maintenance state before disturbing PR6423-10R-010.
- 3

Protect the probe tip from impact and keep the mounting thread and bracket free from burrs or contamination.
- 4

Route the 5 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

- Reverse-mount probe bracket
- PR6423-compatible converter
- Conductive target
- LEMO-connected monitoring input

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	PR6423-10R-010 / PR6423-10R-010 recorded
Physical interface	Reverse-mount probe bracket
Companion check	PR6423-compatible converter
Functional proof	Uses a reverse-mount PR6423 construction
Application test	Inside-out bearing bracket installations

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Sensor family	PR6423
Sleeve thread	3/8-24 UNF-2A
Armor	No
Mounting style	Reverse mount
Adapter plug	Included
Total cable length	5 m
Cable end	LEMO
Static nominal range	+/-1.0 mm
Recommended dynamic range	50 to 500 um p-p
Sensitivity	8 V/mm
Nominal distance center	Approximately 1.5 mm
Basic air gap	0.4 to 0.7 mm
Operating temperature	-35 to +180 degC; +200 degC short term
Pressure at sensor head	10,000 hPa

FIELD NOTE

Confirm reverse-mount clearance and 3/8-24 UNF engagement, support the five-metre lead and verify probe polarity plus gap response after mechanical tightening.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	PR6423-10R-010 / PR6423-10R-010 recorded
Physical interface	Reverse-mount probe bracket
Companion check	PR6423-compatible converter
Functional proof	Uses a reverse-mount PR6423 construction
Application test	Inside-out bearing bracket installations

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	PR6423-10R-010
INSTALLED POSITION	Documented Emerson PR6423 8 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
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
5X00121G01	Related Emerson product	View 5X00121G01 page

SOURCE IDENTIFIERS

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

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