

INDUSTRIAL AUTOMATION PRODUCT

PR6426-000-030

PR6426 large-range eddy-current displacement sensor

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

IDENTITY	VERIFIED VALUE
Manufacturer	Emerson
System family	Emerson PR6426 32 mm eddy-current measurement system
Part number	PR6426-000-030
Country	USA
HS code	8537101190

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Technical Specifications

Technical values below are limited to the named Emerson product record.

PARAMETER	TECHNICAL 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
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

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System Role and Architecture

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

FUNCTION 1

Provides an eight-millimetre nominal static span

FUNCTION 2

Mounts through an 80 x 40 mm plate

FUNCTION 3

Uses an eight-metre unarmored lead

FUNCTION 4

Connects to a PR6426-calibrated converter

Matched system components

- PR6426-configured CON021 or CON041
- 80 x 40 mm mounting plate
- Large conductive target
- Compatible position-monitoring channel

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	PR6426-configured CON021 or CON041
Companion hardware	80 x 40 mm mounting plate
Field connection	Large conductive target
Primary system function	Provides an eight-millimetre nominal static span
Controlled acceptance duty	Large axial-displacement measurement

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Applications and Engineering Context

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

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	PR6426-000-030 / PR6426-000-030 recorded
Physical interface	PR6426-configured CON021 or CON041
Companion check	80 x 40 mm mounting plate
Functional proof	Provides an eight-millimetre nominal static span
Application test	Large axial-displacement measurement

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Engineering 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.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER 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
5X00481G04	Related Emerson product	View 5X00481G04 page

MANUFACTURER SOURCE RECORD

Emerson PR642x Eddy Current Sensor Installation Guide

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