

INDUSTRIAL AUTOMATION PRODUCT

PR6426-010-140

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	PR6426-010-140
Country	USA
HS code	8537101190

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2

Technical Specifications

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

PARAMETER	TECHNICAL VALUE
Sensor family	PR6426
Sleeve thread	None
Aarmor	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

3

System Role and Architecture

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

FUNCTION 1

Protects the large-range probe lead with armor

FUNCTION 2

Provides a ten-metre system cable

FUNCTION 3

Uses an 80 x 40 mm mounting plate

FUNCTION 4

Requires separate documented adapter hardware

Matched system components

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

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	PR6426-compatible converter
Companion hardware	Rigid 80 x 40 mm mounting surface
Field connection	Ten-metre armored route
Primary system function	Protects the large-range probe lead with armor
Controlled acceptance duty	Remote large-gap position loops

4

Applications and Engineering Context

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

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	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

5

Engineering 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.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
1C31169G02	Related Emerson product	View 1C31169G02 page
FX-490	Related Emerson product	View FX-490 page
ES0350-M1A05L-27N0	Related Emerson product	View ES0350-M1A05L-27N0 page
960177-02	Related Emerson product	View 960177-02 page
KJ2003X1-BB1	Related Emerson product	View KJ2003X1-BB1 page
EC3-X33	Related Emerson product	View EC3-X33 page
FX-340	Related Emerson product	View FX-340 page
7379A31G04	Related Emerson product	View 7379A31G04 page

MANUFACTURER SOURCE RECORD

Emerson PR642x Eddy Current Sensor Installation Guide

MHM-97857 Rev. 1.11, January 2026

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