

Installation Identity and Scope

EPRO PR6423/002-001 CON041 combines an 8 mm PR6423 eddy-current sensor with a CON041 signal converter for non-contact shaft-displacement and position measurements. The documented PR6423 measuring range is 2 mm and the CON041 bandwidth extends to 20 kHz.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	PR6423/002-001 CON041
Manufacturer	EPRO
Hardware type	Eddy Current Measurement System
System family	Industrial automation
Official source	PR6423 specification sheet, December 2024

CONTROLLED ENGINEERING COPY

Use only the complete EPRO PR6423/002-001 CON041 identity and the current manufacturer documentation. Verify the installed revision, companion hardware, wiring and saved configuration before replacement or release.

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PR6423/002-001 CON041

Pre-Installation Plan

NO.	REQUIRED ACTION
1	Verify the complete PR6423/002-001 and CON041 markings as a matched measurement loop.
2	Confirm the target material and minimum shaft requirements from the PR6423 data sheet.
3	Set the documented initial air gap before operation.
4	Use the correct CON041 supply and output-range configuration.
5	Route sensor and converter wiring away from high-energy interference sources.

Matched Hardware

CONTROL ITEM	REQUIRED RECORD
Identity	PR6423/002-001 CON041
Physical interface	Exact EPRO PR6423/002-001 CON041 nameplate and installed revision
Companion check	Documented Eddy Current Measurement System system position and companion hardware
Configuration	Labeled field, power, communication and grounding connections
Functional proof	Saved configuration plus a controlled functional-test record

Related Products on Apter Power

MODEL	APTER POWER PAGE
Epro PR6423-018-040-CON021	View Epro PR6423-018-040-CON021
Epro PR6423-018-140-CON021	View Epro PR6423-018-140-CON021
Epro PR6423-01K-010	View Epro PR6423-01K-010
Epro PR6424-014-140-CON021	View Epro PR6424-014-140-CON021
Epro PR6426-010-040-CON021-916-120	View Epro PR6426-010-040-CON021-916-120

Wiring and Interface Checks

CHECK	MODEL-SPECIFIC REQUIREMENT
Identity	Record EPRO PR6423/002-001 CON041 and the installed revision exactly.
Sensor	Verify the documented value: PR6423/002-001, 8 mm eddy-current sensor.
Converter	Verify the documented value: CON041 DIN-rail signal converter.
Connections	Label every installed interface, common, shield and protective-ground connection.
Configuration	Back up and restore the model-specific settings, mappings and approved limits.
Functional proof	Test the complete Eddy Current Measurement System function under a controlled maintenance state.

CONFIGURATION BOUNDARY

Use only the complete EPRO PR6423/002-001 CON041 identity and the current manufacturer documentation. Verify the installed revision, companion hardware, wiring and saved configuration before replacement or release.

Expected Technical Values

PARAMETER	VALUE
Sensor	PR6423/002-001, 8 mm eddy-current sensor
Converter	CON041 DIN-rail signal converter
Linear measuring range	2 mm (80 mil)
Initial air gap	0.5 mm (20 mil)

Related Products on Apter Power

MODEL	APTER POWER PAGE
Epro PR9268-200-000	View Epro PR9268-200-000
Epro PR9268-203-000	View Epro PR9268-203-000

Commissioning and Acceptance

TEST	ACCEPTANCE CONDITION
Identity	The complete PR6423/002-001 CON041 marking and revision agree with the engineering record.
Compatibility	System position, companion hardware and interfaces match the manufacturer documentation.
Configuration	Saved values, channel mappings and protection limits are restored without unexplained change.
Functional proof	Diagnostics and the model-specific controlled test pass without unexplained fault.

Model-Specific Questions

QUESTION	ENGINEERING ANSWER
What is EPRO PR6423/002-001 CON041?	It is an 8 mm PR6423 eddy-current sensor matched with a CON041 signal converter.
What measuring range applies to EPRO PR6423/002-001 CON041?	The PR6423 specification lists a 2 mm linear measuring range with a 0.5 mm initial air gap.
What scale factor is documented for EPRO PR6423/002-001 CON041?	The sensor specification gives 8 V/mm, or 203.2 mV/mil, within the stated tolerance and temperature range.
What bandwidth does the CON041 in EPRO PR6423/002-001 CON041 provide?	The converter frequency range is 0 to 20,000 Hz at the -3 dB point.

Related Products on Apter Power

MODEL	APTER POWER PAGE
WOODWARD DYN2-94025-004	View WOODWARD DYN2-94025-004
WOODWARD 9907-186	View WOODWARD 9907-186
WOODWARD 8237-1246	View WOODWARD 8237-1246
Allen Bradley 1203-GD1	View Allen Bradley 1203-GD1
Allen Bradley 1203-GU6	View Allen Bradley 1203-GU6

FAQ, Source and Controlled Release

QUESTION	ENGINEERING ANSWER
Which output ranges are available for EPRO PR6423/002-001 CON041?	The CON041 supports -2 to -18 V or -4 to -20 V depending on the selected supply/output configuration.
Why must EPRO PR6423/002-001 CON041 be calibrated as a complete loop?	Sensor, cable, converter, target material and gap together determine the measurement scale and linearity.
What confirms successful commissioning of EPRO PR6423/002-001 CON041?	Correct gap voltage, scale factor, dynamic response and monitor indication under a controlled test confirm release.

MANUFACTURER SOURCE RECORDS

Emerson PR6423 8 mm Eddy Current Sensor Specification Sheet - PR6423 specification sheet, December 2024
 Emerson CON041 Eddy Current Signal Converter Specification Sheet - CON041 specification sheet, June 2017

Controlled Release Summary

RELEASE ITEM	REQUIRED EVIDENCE
Identity	PR6423/002-001 CON041 recorded
Interface	Connections and companion hardware verified
Configuration	Installed values agree with approved record
Functional proof	Controlled test completed without unexplained fault

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