01 INSTALLATION & COMMISSIONING

EPRO PR6423/13R-040 CON021

01 / PLAN AND IDENTIFY

EPRO PR6423/13R-040 CON021 combines a reverse-mount armored PR6423 8 mm eddy-current sensor with a 10 m cable, Lemo converter connection and the compatible CON021 panel-mount signal converter. The matched system measures shaft displacement, position, eccentricity and speed-related events.

Identity gate

Composite Identity	PR6423/13R-040 CON021
Sensor	PR6423/13R-040
Converter	CON021
Execution	3/8-24 UNF, armored, reverse mount, 10 m, Lemo

Work boundary

Exact item	Installed context	Acceptance
PR6423/13R-040 CON021	Mating component or rack position	Machine-specific functional check

01 Record the as-found item

Capture the complete identifier, installed point and mating components before removal. Apply the authorized isolation and protection-bypass procedure.

Related models

EPRO PR6423/002-000 CON021	Related portfolio reference; verify the complete execution.
EPRO PR6423/003-030 CON021	Related portfolio reference; verify the complete execution.
EPRO PR6423/015-040	Related portfolio reference; verify the complete execution.
EPRO PR6423/018-040 CON021	Related portfolio reference; verify the complete execution.
EPRO PR6423/018-140 CON021	Related portfolio reference; verify the complete execution.
EPRO PR6424/014-140 CON021	Related portfolio reference; verify the complete execution.

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PR6423/13R-040 CON021

02 / PRE-INSTALLATION

Readiness gate

Identity	Full model and nameplate recorded
Mechanical	Mounting, enclosure and routing inspected
Electrical	Power, loop or cable checks follow the applicable source
Integration	Mating components and system length confirmed

02 Inspect condition

Check the nameplate, mounting surfaces, connectors, cable or enclosure for damage and contamination. Reject an item whose exact identity or condition cannot be confirmed.

03 Review the source

Emerson PR6423 sheet: function, performance and exact order-code decoding pp. 1-5; CON021 sheet: compatibility, electrical and mechanical data pp. 1-3; MHM-97857: mounting, cable and commissioning practices.

Related models

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03 / INSTALL AND CONNECT

04 / Installation check

Verify the complete PR6423/13R-040 CON021 identity before installation.

05 / Installation check

Confirm the 3/8-24 UNF reverse-mount geometry and available sensor clearance.

06 / Installation check

Preserve the armored cable and the 10 m total electrical length.

07 / Installation check

Keep the one-metre adapter-plug position and Lemo termination free from strain.

08 / Installation check

Mount CON021 with the supplied M5 hardware in a protected panel environment.

Documented data to respect

Sensor	PR6423 8 mm eddy-current sensor
Sensor Thread	3/8-24 UNF
Sensor Mount	Reverse mount
Sensor Cable	Armored
Adapter Plug	Included at 1 m
Total Cable Length	10 m

Related models

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EPRO PR6423/003-030 CON021	Related portfolio reference; verify the complete execution.
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PR6423/13R-040 CON021

04 / COMMISSION AND ACCEPT

09 Restore the documented assembly

The sensor geometry, total cable length and converter calibration operate as one measurement chain. Target material, initial gap, supply wiring and converter output must be checked together during commissioning.

10 Perform the functional check

Use the machine procedure to verify the expected static condition, signal path and operating response. A visual inspection alone is not commissioning evidence.

Acceptance record

Identity	Full model and nameplate recorded
Mechanical	Mounting, enclosure and routing inspected
Electrical	Power, loop or cable checks follow the applicable source
Integration	Mating components and system length confirmed
Acceptance	Machine-specific functional result recorded

What cable arrangement belongs to EPRO PR6423/13R-040 CON021?

The 040 suffix selects an adapter plug, 10 m total cable length and Lemo converter connection.

Which converter is paired with the sensor?

CON021 is the compatible panel-mount eddy-current signal converter.

What measuring range applies to the PR6423 sensor?

The documented linear measuring range is 2 mm, equivalent to 80 mils.

Related models

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EPRO PR6423/003-030 CON021	Related portfolio reference; verify the complete execution.
EPRO PR6423/015-040	Related portfolio reference; verify the complete execution.

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05 / HANDOVER

What does CON021 provide in this system?

It powers and conditions the sensor signal and provides the proportional voltage output for the monitoring channel.

What confirms commissioning of EPRO PR6423/13R-040 CON021?

Confirm exact identity, cable routing, supply polarity, initial gap, converter output, dynamic response and receiving-channel scaling.

Handover record

Identity	Exact model and installed location
Configuration	Mating items and relevant option fields
Inspection	Mechanical, cable and connector condition
Test	Authorized functional result and date

Related-product boundary

Recommended models are portfolio references. Compare every ordering field before selection.

Related models

EPRO PR6423/002-000 CON021	Related portfolio reference; verify the complete execution.
EPRO PR6423/003-030 CON021	Related portfolio reference; verify the complete execution.
EPRO PR6423/015-040	Related portfolio reference; verify the complete execution.
EPRO PR6423/018-040 CON021	Related portfolio reference; verify the complete execution.

Manufacturer evidence

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