EPRO PR6423/13R-040 CON021

COMPLETE PRODUCT INFORMATION

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.

Exact identity

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

Installed context

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

Radial shaft vibration

Measure dynamic shaft displacement on turbines, compressors, pumps and fans.

Axial position

Track thrust-position change against a qualified steel target.

Eccentricity monitoring

Observe low-speed shaft bow and eccentricity through the eddy-current signal.

Speed or key events

Detect shaft events when the mechanical target and monitoring channel are designed for timing use.

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

Manufacturer-supported characteristics

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

Additional data

Cable End	Lemo connector
Converter	CON021 panel mount
Linear Measuring Range	2 mm / 80 mils
Nominal Scale Factor	8 V/mm (203.2 mV/mil)
CON021 Frequency Range	0 to 20 kHz (-3 dB)
CON021 Protection	IP20

Interpretation boundary

Use PR6423/13R-040 only with the documented connector and converter arrangement; do not transfer calibration data from a different PR6423 cable or mounting code.

Evidence discipline

Unverified weight, dimensions and suffix meanings are intentionally omitted. Confirm them only from the exact manufacturer record or nameplate.

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PR6423/13R-040 CON021

01 / Field precaution

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

02 / Field precaution

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

03 / Field precaution

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

04 / Field precaution

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

05 / Field precaution

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

06 / Field precaution

Wire the documented negative supply and output terminals with correct polarity.

07 / Field precaution

Set the initial gap against the actual target and observe the converter output range.

08 / Field precaution

Verify static gap, dynamic waveform, channel scaling and the machine acceptance record.

Acceptance checkpoints

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

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PR6423/13R-040 CON021

What mounting style is used by EPRO PR6423/13R-040 CON021?

The R code identifies a reverse-mount PR6423 sensor.

Which thread is used on EPRO PR6423/13R-040 CON021?

The PR6423/13 family uses a 3/8-24 UNF case thread.

Is the sensor cable armored?

Yes. The 13 prefix selects the armored execution for the reverse-mount sensor.

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.

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.

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Evidence record

Manufacturer	EPRO, an Emerson machinery health product
Reference	Emerson PR6423 8 mm Sensor Specifications (December 2024), CON021 Specifications (August 2017), and PR642x Installation Guide MHM-97857 Rev. 1.11
Exact identifier	PR6423/13R-040 CON021
Evidence boundary	Only directly supported family and ordering statements are used

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Recommendation rule

Brand + model links identify related product pages. They do not claim compatibility or substitution.

Service record

Retain exact identity, installed point, companion components, as-found condition, inspection evidence and machine-specific acceptance result.

Manufacturer evidence

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.

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