

MANUFACTURER-SOURCE TECHNICAL REFERENCE

Epro PR6423/002-000 CON021

Product Reference

Emerson EPRO 8 mm eddy current sensor configuration with compatible CON021 signal-converter boundary

DOCUMENT SCOPE

Independent Apter Power manual compiled only from the cited Emerson manufacturer sources. No product photograph is included.

Product / lookup identity	Epro PR6423/002-000 CON021
Reference number	PR6423/002-000 CON021
Document basis	Published Emerson product records, PDFs, and manuals listed on page 3



Product page

<https://www.apterpower.com/Epro/pr6423-002-000-con021>
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Product role and published parameters

WHAT IT IS, WHAT IT DOES, AND WHERE IT FITS

Emerson EPRO PR6423/002-000 is an exact 8 mm eddy-current sensor configuration for non-contact measurement on critical turbomachinery. The PR6423 family measures radial and axial shaft dynamic displacement, position, eccentricity and speed on ferromagnetic targets. System context: Emerson EPRO 8 mm eddy current sensor configuration with compatible CON021 signal-converter boundary.

Published field	Manufacturer-published value or verified identity note
Manufacturer	Emerson / EPRO
Exact sensor code	PR6423/002-000
Requested converter	CON021; separate physical identity and supply contents must be verified
Sensor type	8 mm eddy current sensor
Case thread / armor	M10x1 / no armor
Sleeve length	45 mm
Adapter plug / cable end	With adapter plug / LEMO

System function and signal path

01	Sensor: PR6423/002-000 detects shaft-to-probe distance without contact on the approved ferromagnetic target.
02	Cable and connector: The exact ordering code provides the adapter-plug and LEMO-ended 4.0 m arrangement that must remain matched to the calibrated chain.
03	Converter: A separately identified compatible CON021 conditions the sensor signal for the monitoring channel.
04	Boundary: The requested combined label does not establish packaging, barrier, rack input, alarm logic or trip voting by itself.

Applications, answers, and official sources

1 Radial shaft vibration measurement: Supports non-contact dynamic displacement measurement on approved critical-turbomachinery shafts when the complete calibrated chain is verified.

2 Axial position and thrust monitoring: Provides an evidence-bounded sensor/converter path for axial position measurement with project-specific target geometry and alarm logic.

3 Eccentricity and slow-roll observation: Supports eccentricity or shaft-position observation within the published PR6423 family range and the configured monitoring channel.

4 Installed-base sensor replacement: Guides model, cable, converter, barrier and calibration checks before replacing an existing PR6423/002-000 chain.

Frequently asked questions

What is PR6423/002-000?	It is an exact Emerson EPRO 8 mm eddy-current sensor configuration decoded by the official PR6423 ordering matrix.
What does the /002-000 code specify?	It specifies M10x1, no armor, a 45 mm sleeve, adapter plug, 4.0 m cable and LEMO cable end.
Is CON021 compatible with PR6423?	Yes. Emerson's CON021 specification explicitly lists PR6423 among the supported sensor families.
Are the sensor and CON021 always supplied as one kit?	No. The requested wording proves a compatible pairing, not packaged supply contents; verify the quotation and physical labels.
What is the PR6423 family measuring range?	Emerson publishes a 2 mm linear measuring range for the standard 8 mm PR6423 family.
What is the initial air gap?	The cited PR6423 specification lists 0.5 mm as the initial air gap under its reference conditions.

Official Emerson sources

Emerson PR6423 8 mm Eddy Current Sensor Specifications Sheet	https://www.emerson.com/is/content/emerson/en/systems-and-software/ams/forms-and-specs/documents/pr6423-8mm-sensor.pdf
Emerson CON021 Eddy Current Signal Converter Specifications Sheet	https://www.emerson.com/is/content/emerson/en/systems-and-software/ams/forms-and-specs/documents/eddy-current-signal-converter-con021.pdf
Emerson CON0x1 and PR642x Eddy Current System	https://www.emerson.com/en/automation-systems/asset-performance-management/machinery-health-management/ams-c0n0x1-pr642x