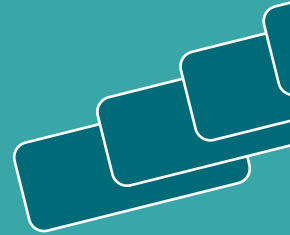


MANUFACTURER-SOURCE TECHNICAL REFERENCE

Epro PR6423/002-000 CON021

PR6423/002-000 CON021 Installation and Verification Guide

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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Workflow and system context

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.

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.

Published context and boundaries

01	EXACT SENSOR CONFIGURATION AND COMPATIBLE CONVERTER FAMILY VERIFIED
02	Emerson's December 2024 PR6423 ordering matrix decodes PR6423/002-000 as an 8 mm M10x1 sensor without armor, with 45 mm sleeve, adapter plug, 4.0 m cable and LEMO end. Emerson's CON021 sheet explicitly lists PR6423 as a supported sensor family; the combined request does not by itself prove that both pieces are supplied as one factory kit.
03	Current formal lifecycle phase for the exact combined supply is not stated in the cited Emerson sources and remains HOLD.

Verification and release checks

01	Verify both complete physical labels and confirm whether the quoted supply includes the sensor, converter or both.
02	De-energize and follow the site's machinery-protection and hazardous-area procedure before disturbing the loop.
03	Do not interchange armored, reverse-mount, RAD, open-end or different-length PR6423 variants.
04	Preserve the exact calibrated sensor, cable and converter combination required by the monitoring design.
05	Verify target material, minimum shaft diameter, initial gap and mechanical runout before calibration.
06	Observe the published cable bending radius and protect the sensor tip, cable, adapter and LEMO connector from damage.

Identity and release controls

Verification Status	EXACT SENSOR CONFIGURATION AND COMPATIBLE CONVERTER FAMILY VERIFIED
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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