

MANUFACTURER-SOURCE TECHNICAL REFERENCE

Emerson PR6423/00R-101 CON031

Product Reference

Emerson PR6423/00R-101 CON031 8 mm Eddy Current Measuring Chain

DOCUMENT SCOPE

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

Product / lookup identity	Emerson PR6423/00R-101 CON031
Reference number	PR6423/00R-101 CON031
Document basis	Published Emerson product records, PDFs, and manuals listed on page 3



Product page

<https://www.apterpower.com/Emerson/pr6423-00r-101-con031>
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Product role and published parameters

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

Emerson PR6423/00R-101 CON031 is an evidence-bounded 8 mm reverse-mount eddy current sensor and CON031 measuring-chain configuration in the Bailey INFI 90 / Harmony Rack installed-base context. System role: The calibrated sensor and CON031 converter measure static and dynamic distance, including axial displacement, radial vibration, position, eccentricity and speed-related key pulses on rotating machinery. System context: Emerson PR6423/00R-101 CON031 8 mm Eddy Current Measuring Chain.

Published field	Manufacturer-published value or verified identity note
Exact sensor code	PR6423/00R-101
Sensor configuration	M10x1; non-armored; reverse mount; no adapter plug; 4.0 m cable; open cable end
Signal converter	CON031 screw-terminal converter for sensors without connector
Linear measuring range	2 mm (80 mils)
Initial air gap	0.5 mm (20 mils)
Incremental scale factor	8 V/mm (203.2 mV/mil) +/-5% at 0 to 45 deg C
Protection class	IP66 for the PR6423 sensor; installed-system classification depends on converter documentation

System function and signal path

01	System Inputs: The calibrated sensor and CON031 converter measure static and dynamic distance, including axial displacement, radial vibration, position, eccentricity and speed-related key pulses on rotating machinery.
02	Processing: Sensor and converter are adjusted and delivered as a measuring chain; keep the matched sensor/converter identity, material calibration, supply and output range together.

Applications, answers, and official sources

1 Installed-base maintenance: Supports evidence-led identification and replacement planning for Emerson PR6423/00R-101 CON031.

2 System documentation: Provides a source-traceable boundary for rack, network, I/O and termination records.

3 Commissioning review: Guides pre-power checks, companion-module verification and controlled functional testing.

4 Migration assessment: Separates exact-model facts from successor, sibling and family-level information.

Frequently asked questions

What is Emerson PR6423/00R-101 CON031?	It is an Emerson 8 mm reverse-mount eddy current sensor and CON031 measuring-chain configuration; this page is limited to the exact evidence boundary stated in the cited Emerson sources.
Is the exact model identity verified?	Verified Exact Sensor Ordering Configuration And Con031 Compatibility.
What is its system role?	The calibrated sensor and CON031 converter measure static and dynamic distance, including axial displacement, radial vibration, position, eccentricity and speed-related key pulses on rotating machinery.
Which system family is documented?	Emerson Bailey INFI 90 / Harmony Rack installed-base architecture, subject to the exact source boundary.
Are related models automatic substitutes?	No. A sibling, SP/IN generation, repair code or evolution path is not an alias or unconditional drop-in approval.
Must the physical nameplate be checked?	Yes. Verify the model, revision, firmware and all order or repair suffixes.

Official Emerson sources

Emerson PR6423 8 mm Eddy Current Sensor Specifications	https://www.emerson.com/is/content/emerson/en/systems-and-software/ams/forms-and-specs/documents/pr6423-8mm-sensor.pdf
Emerson CON021 and CON031 Installation Guide	https://www.emerson.com/is/content/emerson/en/systems-and-software/ams/forms-and-specs/documents/con-021-and-con-031--converter-for-pr-642x-eddy-current-sensors.pdf