



PR6424/000-101 CON031

Emerson 16 mm Eddy Current Sensor with Converter

Product scope

- The exact order identity fixes sensor family at PR6424 within the Emerson EPRO PR6424 platform.
- The hardware path is defined by the complete probe cable and matching CON031 converter connected to a compatible monitoring input.
- Its intended duty is radial vibration, axial position and relative shaft-displacement measurement on large rotating machinery.
- a 16 mm PR6424 eddy-current probe configuration paired with a CON031 signal converter for non-contact shaft displacement measurement

Official source basis

<https://www.emerson.com/is/content/emerson/en/systems-and-software/ams/forms-and-specs/documents/eddy-current-sensors-pr-642x.pdf>

Technical facts are limited to the identified manufacturer documentation and the exact ordering configuration shown above.

Request a fast quote	Product reference	
Email: info@apterpower.com Phone: +86 18106909650 apter.com/inquiry.php	Emerson PR6424/000-101 CON031	

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PR6424/000-101 CON031 technical profile

Emerson PR6424/000-101 CON031 is the documented eddy current sensor and signal converter in the Emerson EPRO PR6424 family. Across its exact configuration, sensor family is PR6424, while nominal tip class is 16 mm.

Its system contribution is to turns the probe's target-distance response into a conditioned signal for machinery protection and condition monitoring. That duty is performed through the complete probe cable and matching CON031 converter connected to a compatible monitoring input inside radial vibration, axial position and relative shaft-displacement measurement on large rotating machinery.

Engineering review must reconcile probe suffix, cable length, converter range, target material, mounting thread and monitoring-channel polarity. Probe and converter calibration form one measuring chain; changing cable length or converter range can alter scale and linearity

Selection notice

PR6424/000-101 CON031 is a calibrated measuring chain, so probe cable length and converter range must remain matched.

Technical specifications

Sensor family	PR6424
Nominal tip class	16 mm
Measurement principle	Eddy current
Converter model	CON031
Connection form	Open-wire probe input
Primary measurement	Relative displacement
Typical machinery use	Shaft vibration and position
Sensor temperature range	-35 to +120 °C nominal
Pressure resistance	10000 hPa at sensor head
Vibration resistance	5 g at 60 Hz
Cable construction	Oil and chemical resistant
Converter supply	-23 to -32 V DC
Mounting dependency	Order-code specific thread and sleeve
Calibration dependency	Probe, cable and converter set
Standards context	API 670 machinery monitoring

Application and integration notes

Temperature Range	• The eddy current sensor and signal converter used in radial vibration, axial position and relative shaft-displacement measurement on large rotating machinery must remain within the environmental limits published for its complete Emerson EPRO PR6424 assembly. • The available official record lists nominal tip class as 16 mm; that limit must be interpreted for the exact order configuration. • Airflow, condensation control, contamination and transport protection must be reviewed for the site conditions in radial vibration, axial position and relative shaft-displacement measurement on large rotating machinery.
Measurement	• In service, the assembly turns the probe's target-distance response into a conditioned signal for machinery protection and condition monitoring. • The documented standards context is API 670 machinery monitoring, providing a reference for post-installation checks. • Acceptance requires a functional test in radial vibration, axial position and relative shaft-displacement measurement on large rotating machinery, not merely a clear hardware indication.
Sensor Ratings	• The sensing configuration is bounded by the published nominal tip class of 16 mm. • Probe, cable and converter characteristics must remain a matched measuring chain for radial vibration, axial position and relative shaft-displacement measurement on large rotating machinery. • Environmental suitability must be confirmed from the exact sensor construction and installed mounting location.

Request product documentation and quotation support

Send the complete label, system configuration, quantity and destination.



Email: info@apterpower.com **Phone:** +86 18106909650

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