Product dashboard

Emerson PR6424/006-131 CON041 identifies a PR6424 16 mm eddy-current sensor paired with the CON041 signal-converter family. The documented PR6424 standard chain provides a ±2.0 mm static range and 4 V/mm sensitivity on 42CrMo4 steel.

Exact model	Product type	System family	Functional role
PR6424/006-131 CON041	16 mm Eddy-Current Sensor and Signal	AMS Machinery Health Measurement Chain	Eddy-Current Sensor

PARAMETER	DOCUMENTED VALUE
Exact model	PR6424/006-131 CON041
Sensor principle	Eddy current, non-contact
Sensor diameter	16 mm
Static range	±2.0 mm
Recommended dynamic range	0 to 1000 µm peak-to-peak
Sensitivity	4 V/mm on 42CrMo4 steel
Nominal center air gap	Approximately 2.7 mm
Sensor operating temperature	-35 to +150 °C

Release basis: verify the exact identity, retained host relationship, connected interfaces and controlled functional result.

CONTACT APTER POWER

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com

PR6424/006-131 CON041

System overview

PR6424/006-131 CON041 is handled as one calibrated sensor-converter chain whose probe identity, cable path, target material and converter pairing must remain together.

Exact-position replacement

Matches PR6424/006-131 CON041 to the recorded host, position and companion hardware before changeout.

Interface restoration

Rebuilds the documented power, signal, keying and protective interfaces for PR6424/006-131 CON041.

Configuration-controlled service

Restores assignments and settings from the approved record instead of borrowing them from a neighboring device.

Acceptance and handover

Confirms diagnostics and a controlled functional response from PR6424/006-131 CON041 before release.

SYSTEM POSITION	RECORD
Installed identity	PR6424/006-131 CON041
Host relationship	AMS Machinery Health Measurement Chain
Controlled function	non-contact measurement of shaft displacement, position, eccentricity or speed/key motion

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PR6424/006-131 CON041

Technical data map

PARAMETER	VERIFIED VALUE
Exact model	PR6424/006-131 CON041
Sensor principle	Eddy current, non-contact
Sensor diameter	16 mm
Static range	±2.0 mm
Recommended dynamic range	0 to 1000 µm peak-to-peak
Sensitivity	4 V/mm on 42CrMo4 steel
Nominal center air gap	Approximately 2.7 mm
Sensor operating temperature	-35 to +150 °C
Target material	Ferromagnetic steel; 42CrMo4 standard
Converter family	CON041 DIN-rail signal converter
Converter frequency range	0 to 20,000 Hz (-3 dB)
Standard converter range for PR6424	4.0 mm

CONTROL BAND	VERIFICATION RECORD
Identity	Exact model and complete label
Mechanical	Form, seating and retention
Interfaces	Power, wiring, communication and protection
Configuration	Settings, project and revision
Release	non-contact measurement of shaft displacement, position, eccentricity or speed/key motion

Technical evidence record: Emerson PR6424 specifications and CON041 converter specifications

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PR6424/006-131 CON041

Applications and precautions

1. Confirm the complete PR6424/006-131 CON041 marking and documented hardware role before work.
2. Place the connected process and controller hardware in the approved maintenance state.
3. Record the host position, companion parts, cable direction, terminal assignments and active configuration.
4. Isolate every documented power, signal and stored-energy source before disconnecting hardware.
5. Protect keyed connectors, electronic contacts and labeled field conductors during handling.
6. Restore only the recorded power, wiring, grounding, shielding and configuration arrangement.
7. Energize in a controlled sequence and review device, carrier, controller and field diagnostics.
8. Function-test non-contact measurement of shaft displacement, position, eccentricity or speed/key motion and retain the acceptance record before service release.

Complete each check against the installed record; hold release when any identity, connection, configuration or diagnostic result differs.

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PR6424/006-131 CON041

Buyer and engineering FAQ

What evidence should be captured before removing PR6424/006-131 CON041?

PR6424/006-131 CON041 is documented for non-contact measurement of shaft displacement, position, eccentricity or speed/key motion.

How can technicians prove that PR6424/006-131 CON041 was restored correctly?

Match the entire model string, the installed position, keying, terminal hardware and approved system record before changeout.

When should PR6424/006-131 CON041 be rejected as a substitute despite a similar appearance?

The verified value for sensor diameter is 16 mm.

What acceptance record closes work on PR6424/006-131 CON041?

Its function depends on the documented receiving position and connected hardware; similar appearance does not establish interchangeability.

Related Apter Power pages

- Emerson KJ4010X1-BG1 12P0830X072
- Emerson KJ4010X1-BG1 12P0830X062
- Emerson KJ4010X1-BF1 12P0831X072

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WEBSITE	www.apterpower.com

PR6424/006-131 CON041