

PR6424-000-000-CON21

Eddy Current Sensor

It combines a PR6424 16 mm sensor identity with the CON021 signal-converter arrangement for non-contacting machinery measurements.

Manufacturer	Epro
Product family	PR6424 16 mm eddy-current transducer system
Complete model	PR6424-000-000-CON21
Source record	PR6424 / PR642x

RELATED PRODUCTS ON APTER POWER

01	Emerson KJ4001X1-CC1-12P0733X042	OPEN
02	Emerson KJ3101X1-BB1-12P1866X062	OPEN
03	Emerson KJ3101X1-BA1-12P1865X062	OPEN
04	Emerson KJ3001X1-BH1-12P0558X152	OPEN
05	Emerson KC3011X1-BA1-12P6749X042	OPEN
06	Emerson KC3010X1-BA1-12P6762X062	OPEN

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PR6424-000-000-CON21

Exact-model technical record

Complete model	PR6424-000-000-CON21	Dynamic range	0 to 1000 μm
Manufacturer	Epro	Nominal air gap	approximately 2.7 mm
Product family	PR6424 16 mm eddy-current transducer	Target reference	Ferromagnetic steel, 42CrMo4 reference
Sensor family	PR6424, 16 mm	Minimum shaft diameter	80 mm
Converter identity	CON021	Measurement roles	Radial/axial displacement, position,
Nominal sensitivity	4 V/mm	Cable construction	PTFE-insulated sensor and extension cable
Static range	approximately ±2 mm		

OFFICIAL SOURCE COVERAGE

Source 1	Emerson PR6424 16 mm Sensor Datasheet and PR642x Installation Guide — Catalog or product identification, PR6424 / PR642x
Source 2	Emerson PR6424 16 mm Sensor Datasheet and PR642x Installation Guide — Technical specifications, PR6424 / PR642x
Source 3	Emerson PR6424 16 mm Sensor Datasheet and PR642x Installation Guide — Installation and application guidance, PR6424 / PR642x

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System role and applications

Shaft radial displacement

Measures non-contacting radial motion on large rotating shafts.

Axial position

Tracks thrust or axial position in the engineered probe geometry.

Eccentricity monitoring

Observes low-speed shaft eccentricity with the matched system.

Speed and phase reference

Provides the proximity signal used by the configured monitoring channel.

ENGINEERING BOUNDARY

Treat PR6424-000-000 and CON021 as a matched installed identity. Verify system length, target material, mounting, gap and monitor scale before service.

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Model-specific engineering questions

Q1. Which sensor family identifies PR6424-000-000-CON21?

Sensor family: PR6424, 16 mm. Match the complete catalog identity before work.

Q2. What converter identity must be matched for PR6424-000-000-CON21?

Converter identity: CON021. Preserve the installed system assignment and connector mapping.

Q3. How is the nominal sensitivity defined on PR6424-000-000-CON21?

Nominal sensitivity: 4 V/mm. Use the controlled project record during wiring checks.

Q4. Why does the static range matter when replacing PR6424-000-000-CON21?

Static range: approximately ± 2 mm. Do not substitute a neighboring family value.

SOURCE IDENTIFIER

PR6424 / PR642x

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PR6424-000-000-CON21

Acceptance reference and related products

Q5. Which dynamic range should commissioning records retain for PR6424-000-000-CON21?

Dynamic range: 0 to 1000 µm. Record the as-found setting before removal.

Q6. What should technicians verify about the nominal air gap of PR6424-000-000-CON21?

Nominal air gap: approximately 2.7 mm. Confirm the value again during controlled startup.

RELATED PRODUCTS ON APTER POWER

01	Emerson KC3011X1-BA1-12P6749X042	OPEN
02	Emerson KC3010X1-BA1-12P6762X062	OPEN
03	Emerson 1X01046H01L	OPEN
04	Epro PR6423-002-000-CON021	OPEN
05	Emerson PR6426-000-131-CON041	OPEN
06	Emerson 1X00781H01L	OPEN
07	Emerson 38B6041X152	OPEN
08	Emerson 38B5786X092	OPEN
09	Epro PR6423-018-040-CON021	OPEN
10	Epro PR6423-018-140-CON021	OPEN
11	Emerson PR6423-003-130-CON021	OPEN
12	Emerson 5X00226G04	OPEN
13	Emerson 5X00481G04	OPEN
14	Emerson KJ2005X1-BK11-2P4688X052-SE3007	OPEN

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