PR6423/002-121 CON041

Emerson / Eddy-current proximity measurement set

Emerson PR6423/002-121 CON041 combines a PR6423 eddy-current probe execution with a CON041 signal converter reference for rotating-machinery displacement measurement.

Overview

The PR6423/002-121 CON041 measurement set senses relative movement between a conducting shaft target and the noncontact PR6423 probe tip. The converter conditions the probe signal for a compatible monitoring input. Selection of the target, cable and converter determines the calibrated measurement chain.

The PR6423 family uses an 8 mm probe tip and is applied to shaft vibration, axial position and related relative displacement measurements. CON041 is a matching eddy-current signal-converter family. The exact /002-121 probe option and converter execution must be checked against the supplied labels before assigning family ratings to the offered combination.

Technical specification matrix

Sensor family	PR6423, 8 mm eddy-current probe
Converter family	CON041
Measurement principle	Noncontact eddy-current displacement
Sensor execution	PR6423/002-121
Converter identity	CON041; match actual label
System boundary	Probe, converter, cable and target form the measurement chain

Applications and system fit

Radial shaft vibration

Measure shaft motion relative to a bearing housing with a matched PR6423/CON041 chain.

Axial position monitoring

Track thrust movement using an approved target face and calibrated axial probe arrangement.

Slow-roll diagnostics Observe target runout or eccentricity with a suitable monitor and machine reference.	**Machinery protection input** Provide conditioned displacement information to the installed protection channel after approved chain calibration.

Product precautions

Match the probe option Compare PR6423/002-121 and CON041 with both offered labels and the installed channel.	**Inspect the target** Review target material, surface condition and probe track.
Preserve the cable chain Match extension cable, connector and total cable arrangement.	**Protect the probe** Avoid impact on the tip and over-bending the cable at its casing exit.

Source and application boundary

Emerson PR 642x eddy-current sensor specifications and CON041 signal-converter product information.

PR6423 and CON041 family descriptions establish the measurement roles; option-specific ratings for /002-121 are reserved for the supplied labels and approved chain configuration.

Related product references

Separate product listings for project review; confirm each order code and system fit independently.

Emerson KJ1501X1-BC1 12P2186X032 VE5008	Emerson KJ2003X1-BB1 12P3439X012
Emerson KJ2003X1-BB1 12P3439X012 VE3006	Emerson KJ3002X1-BA1 12P0680X072 VE4003S2B2

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Send the complete model and installed-system details when requesting a quotation.