PR6424/006-010

Epro / 16 mm Eddy-Current Displacement Probe

Epro PR6424/006-010 is a 16 mm PR6424 eddy-current probe with an M18 × 1.5 sleeve, unarmored cable and Cx 100 mm sleeve code.

Overview

This order-code execution selects the unarmored cable option and a Cx 100 mm sensing sleeve. The physical reach and cable construction are selection features for the installation; they do not alter the need to match the probe, adapter, converter and monitor as a complete measuring chain.

The 16 mm sensing family is used for non-contact measurement of relative shaft motion and position on a ferromagnetic target. A properly matched chain can support radial vibration, axial displacement, eccentricity or speed/key measurements, with the application determined by target geometry and monitor configuration.

Technical specification matrix

Sensor family	PR6424, 16 mm eddy-current displacement sensor
Mounting thread	M18 × 1.5
Cable construction	Unarmored
Sleeve-length code	Cx 100 mm
Cable arrangement	5 m total, with adapter plug; LEMO end
Nominal center gap	Approximately 2.7 mm, matched PR6424 system
Static range	±2.0 mm, matched PR6424 system
Dynamic range	0–1,000 µm, matched PR6424 system
Scale factor	4 V/mm, matched PR6424 system
Target	Ferromagnetic steel, standard 42CrMo4

Applications and system fit

Large-shaft turbine monitoring

Measure relative movement on a suitable turbine shaft with the specified target and a matched 16 mm proximity chain.

Compressor axial position

Use a correctly mounted probe at an approved thrust target to monitor axial position.

Hydro-machine runout

Observe shaft eccentricity or slow-roll motion when the target diameter and surface satisfy the measuring arrangement.

Speed and key reference

Detect a suitable target feature when the converter and monitor are configured for a speed or key-pulse task.

Product precautions

Confirm the sleeve execution

Match the full PR6424/006-010 marking and the Cx 100 mm sleeve with the installed holder.

Check cable protection

Assess the unarmored cable route and bend clearance before fitting.

Confirm the target

Verify target material, diameter and surface condition at the measurement track.

Match the electrical chain

Use the approved adapter, total cable length, converter and monitor channel.

Source and application boundary

Emerson PR6424 Specifications Sheet, 16mm Eddy Current Sensor, December 2024.

PR6424 performance figures are matched-family values. Confirm actual converter, target and installed order-code execution before applying them to a protection channel.

Related product references

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

EPRO PR6423/010-010

EPRO PR6423/10R-010

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