PR6423/10R-010

Epro / 8 mm Eddy-Current Displacement Probe

Epro PR6423/10R-010 is an 8 mm non-contact eddy-current probe in the reverse-mounted PR6423 configuration for shaft displacement measurement.

Overview

The PR6423/10R-010 order code selects a 3/8-24 UNF case and unarmored cable. The reverse mount construction determines how the probe is fitted through the machine casing; retain the matching holder and accessible cable path when replacing an installed sensor.

A PR6423 probe forms one part of a matched proximity-measurement chain. The conditioned signal can support radial vibration, axial position or eccentricity monitoring when the converter, extension cable, target material and monitor input are selected together. The family range and scale factor belong to that calibrated chain.

Technical specification matrix

Sensor family	PR6423, 8 mm eddy-current displacement sensor
Mounting thread	3/8-24 UNF
Mounting arrangement	Reverse mount
Cable construction	standard unarmored
Case configuration	reverse-mount case code
Cable arrangement	5 m total, with adapter plug; LEMO end
Linear measurement range	2 mm, PR6423 family
Nominal initial gap	0.5 mm, PR6423 family
Scale factor	8 V/mm ±5% at 0–45 °C, matched system
Protection	IP66, PR6423 family

Applications and system fit

Turbine shaft vibration

Monitor relative radial movement at a bearing when the chosen shaft target and proximity chain meet the project design.

Restricted casing access

Use the reverse-mounted execution where the engineered holder and cable access require insertion from the opposite side.

Runout and eccentricity

Observe slow-roll shaft geometry using an appropriate PR6423 measuring chain and machine reference.

Compressor monitoring

Use a matched probe and converter to feed shaft-displacement information into a machinery-protection system.

Product precautions

Match the full order code

Compare the complete PR6423/10R-010 marking with the installed probe and converter documentation.

Preserve the mounting geometry

Keep the 3/8-24 UNF engagement, probe position and intended reverse mount arrangement.

Check the measurement chain

Confirm the converter, extension cable, adapter and monitor input as one calibrated system.

Protect the cable route

Allow clearance for the standard unarmored construction and its minimum bending radius.

Source and application boundary

Emerson PR6423 Specifications Sheet, 8mm Eddy Current Sensor, December 2024.

PR6423 electrical and environmental figures describe the matched 8 mm sensor family. Confirm converter and installation applicability to the offered complete order code.

Related product references

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

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