PR6423/010-010

Epro / 8 mm Eddy-Current Displacement Probe

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

Overview

The PR6423/010-010 order code selects a M10 × 1 case and armored cable. The standard 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	M10 × 1
Mounting arrangement	Standard mount
Cable construction	armored
Case configuration	25 mm case-length 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.	**Axial position** Track thrust position with an approved axial target, probe holder and calibrated monitor channel.
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 PR6423/010-010 marking with the installed probe and converter documentation.	**Preserve the mounting geometry** Keep the M10 × 1 engagement, probe position and intended standard 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 armored 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.

EPRO PR6423/10R-010	EPRO PR6424/010-010

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