PR9350/02

Epro / Inductive Linear Displacement Transducer

Epro PR9350/02 is an inductive linear-displacement transducer for measuring bidirectional mechanical travel around a defined zero position.

Overview

The PR9350/02 execution measures travel from –25 to +25 mm. Its differential inductive coils produce an output related to displacement when supplied with the specified carrier excitation and evaluated by a compatible measuring amplifier.

The housing mounts through internal M4 fixing holes and the tracing-pin end uses an M3 mechanical connection to the moving target. The installed linkage, stroke and zero point must be engineered so that the sensor remains inside its operating range throughout the machine cycle.

Technical specification matrix

Transducer family	PR9350 inductive displacement
Nominal measuring range	–25 to +25 mm
Sensitivity	270 mV/V
Excitation	5 V rms
Supply current	27–50 mA
Carrier frequency	3–5 kHz
Connection	Three-pole sensor connector
Mounting	Internal M4 fixing holes; M3 tracing-pin end

Applications and system fit

Turbine expansion

Follow controlled casing or shaft expansion with a suitable mechanical linkage and inductive monitor input.

Differential expansion

Measure relative movement between machine structures when the mounting geometry and reference point are defined.

Valve or actuator travel Track bidirectional movement within the approved stroke and mechanical contact arrangement.	**MMS6410 input** Provide an inductive displacement signal to a configured MMS6410 measuring channel where the sensor/excitation match is verified.

Product precautions

Check linkage travel Ensure the full mechanical motion remains within the transducer range and does not overdrive the tracing pin.	**Secure the mount** Use the designed fixing points and prevent body movement relative to the reference structure.
Verify excitation Match the amplifier carrier and connection to the sensor’s required supply.	**Inspect the connector** Confirm the three-pole pin assignment and cable condition.

Source and application boundary

Emerson PR9350 / K20-315 Linear Displacement Transducer Installation Guide, MHM-97864 Rev 1.6, March 2026.

The stated ratings apply to PR9350/02 in the Emerson PR9350/K20-315 guide. Confirm the supplied connector, fitted execution and mounting arrangement.

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.