

Installation Identity and Scope

Emerson PR9350-02 is a differential transformer for linear displacement measurement over a centered 50 mm span. It provides an inductive output for the documented carrier-frequency measurement chain.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	PR9350-02
Manufacturer	Emerson
Hardware type	Linear Displacement Transducer
System family	PR9350 Displacement Sensors
Official source	Emerson MHM-97864, Rev. 1.6, March 2026

CONTROLLED ENGINEERING COPY

Excite the PR9350-02 only with the documented 5 Vrms, 3–5 kHz carrier and verify the A-B, B-C and shield connections before calibration. Establish the mechanical center and prove both travel directions without exceeding the installed stroke.

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PR9350-02

Pre-Installation Plan

NO.	REQUIRED ACTION
1	Confirm the complete PR9350-02 marking and the required centered travel span.
2	Isolate the machine and secure the moving assembly before coupling the transducer.
3	Apply only the documented 5 Vrms, 3–5 kHz excitation.
4	Record A-B and B-C resistance before disturbing field wiring.
5	Keep the cable and shield routing separated from interference sources.

Matched Hardware

CONTROL ITEM	REQUIRED RECORD
Identity	PR9350-02
Physical interface	Documented moving member and centered coupling
Companion check	Compatible 5 Vrms carrier-frequency conditioner
Configuration	A-B, B-C and shield wiring record
Functional proof	Controlled bidirectional travel test

RELEASE HOLD POINT

Do not disturb the installed device until the exact marking, connections, companion hardware and configured function are documented.

Wiring and Interface Checks

CHECK	MODEL-SPECIFIC REQUIREMENT
Identity	Record PR9350-02 and installed conditioner.
Coils	Verify A-B and B-C resistance before energizing.
Excitation	Confirm 5 Vrms at 3–5 kHz.
Mechanical center	Set the core at the documented zero position.
Travel	Prove both directions without mechanical contact.
Shield	Terminate the shield exactly as the approved loop drawing requires.
Linearity	Compare controlled travel with indicated displacement.
Release	Save zero, span and functional-test results.

CONFIGURATION BOUNDARY

Excite the PR9350-02 only with the documented 5 Vrms, 3–5 kHz carrier and verify the A-B, B-C and shield connections before calibration. Establish the mechanical center and prove both travel directions without exceeding the installed stroke.

Expected Technical Values

PARAMETER	VALUE
Complete order code	PR9350-02
Measuring range	-25 to 0 to +25 mm
Sensitivity	270 mV/V
Sensor supply	5 Vrms, 27–50 mA

Commissioning and Acceptance

TEST	ACCEPTANCE CONDITION
Identity	PR9350-02 and its matching conditioner are recorded.
Electrical	Excitation and both winding checks are within the documented values.
Mechanical	Centered travel is free through the required span.
Functional proof	Indicated displacement follows controlled movement in both directions.

Technical Questions to Resolve

QUESTION	ENGINEERING ANSWER
What displacement span is specified for Emerson PR9350-02?	The official guide specifies -25 to 0 to +25 mm, giving a centered 50 mm measuring span.
Which excitation must be used with Emerson PR9350-02?	Use 5 Vrms at a 3–5 kHz carrier frequency; Emerson also lists 27–50 mA sensor current.
What sensitivity should an Emerson PR9350-02 loop produce?	The documented sensitivity is 270 mV/V for the stated measurement arrangement.
How can the two Emerson PR9350-02 windings be checked before startup?	Measure A-B and B-C; each winding is documented at 33.0–36.8 Ω .

Source, Related Products and Release

MODEL	APTER POWER PAGE
Bently Nevada 106M2686-01	View Bently Nevada 106M2686-01
Bently Nevada 107540-01A	View Bently Nevada 107540-01A
Bently Nevada 107770-03-03	View Bently Nevada 107770-03-03
Bently Nevada 109548-01-P1407030-00100	View Bently Nevada 109548-01-P1407030-00100
Bently Nevada 125065-12	View Bently Nevada 125065-12
Bently Nevada 125680-01	View Bently Nevada 125680-01
Bently Nevada 125704-01	View Bently Nevada 125704-01
Bently Nevada 125720-01	View Bently Nevada 125720-01

MANUFACTURER SOURCE RECORD

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

Controlled Release Summary

RELEASE ITEM	REQUIRED EVIDENCE
Identity	PR9350-02 recorded
Interface	Connections and companion hardware verified
Configuration	Installed values agree with approved record
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