

Installation Identity and Scope

Emerson PR9350-02-S2 is the oil-proof, fixed-cable version of the PR9350 linear displacement transducer with a centered ± 25 mm range. Its 10 m open-end cable supports direct field termination in the documented measurement circuit.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	PR9350-02-S2
Manufacturer	Emerson
Hardware type	Oil-Proof Displacement Transducer
System family	PR9350 Displacement Sensors
Official source	Emerson MHM-97864, Rev. 1.6, March 2026; S2 ordering and wiring tables

CONTROLLED ENGINEERING COPY

Protect the integral 10 m cable from damage and identify every open-end conductor before landing PR9350-02-S2. Verify the oil-resistant installation, 5 Vrms carrier supply and centered mechanical travel before calibration.

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PR9350-02-S2

Pre-Installation Plan

NO.	REQUIRED ACTION
1	Verify the full PR9350-02-S2 suffix; do not substitute the standard PR9350-02 cable version.
2	Secure all moving equipment before coupling or uncoupling the transducer.
3	Inspect the full 10 m cable for oil damage, crushing or cuts.
4	Identify brown, white, green and black conductors before termination.
5	Do not connect the black shield to the transducer housing.

Matched Hardware

CONTROL ITEM	REQUIRED RECORD
Identity	PR9350-02-S2
Physical interface	Oil-proof PR9350 mounting location
Companion check	Compatible 5 Vrms conditioner
Configuration	10 m open-end cable termination
Functional proof	Bidirectional position acceptance 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
Suffix	Confirm the complete -02-S2 order code.
Cable	Inspect all 10 m of integral cable.
Conductors	Record brown, white, green and black terminations.
Shield	Keep the black shield isolated from the housing.
Excitation	Verify 5 Vrms and 3–5 kHz.
Center	Set the core at mechanical zero.
Oil exposure	Confirm sealing and routing suit the approved location.
Response	Prove polarity and travel in both directions.

CONFIGURATION BOUNDARY

Protect the integral 10 m cable from damage and identify every open-end conductor before landing PR9350-02-S2. Verify the oil-resistant installation, 5 Vrms carrier supply and centered mechanical travel before calibration.

Expected Technical Values

PARAMETER	VALUE
Complete order code	PR9350-02-S2
Measuring range	-25 to 0 to +25 mm
Special version	Oil-proof fixed cable
Cable length	10 m

Commissioning and Acceptance

TEST	ACCEPTANCE CONDITION
Identity	The -S2 cable and oil-proof construction are confirmed.
Wiring	All four conductors match the official assignment.
Mechanical	The core is centered and free through the required stroke.
Functional proof	The complete loop responds correctly in both directions.

Technical Questions to Resolve

QUESTION	ENGINEERING ANSWER
What makes Emerson PR9350-02-S2 different from PR9350-02?	The S2 suffix identifies the oil-proof version with a fixed 10 m cable and open conductor ends.
How long is the integral cable on Emerson PR9350-02-S2?	The official ordering table specifies a 10 m cable for the S2 version.
Which Emerson PR9350-02-S2 conductor is coil A?	Brown is assigned to coil A.
Which wire is the common coil connection on Emerson PR9350-02-S2?	White is coil B, the documented midpoint connection between the two winding sections.

Source, Related Products and Release

MODEL	APTER POWER PAGE
Bently Nevada 130530-0050-02	View Bently Nevada 130530-0050-02
Bently Nevada 130539-14	View Bently Nevada 130539-14
Bently Nevada 130539-15	View Bently Nevada 130539-15
Bently Nevada 130539-17	View Bently Nevada 130539-17
Bently Nevada 130539-20	View Bently Nevada 130539-20
Bently Nevada 130539-30	View Bently Nevada 130539-30
Bently Nevada 130539-34	View Bently Nevada 130539-34
Bently Nevada 130539-35	View Bently Nevada 130539-35

MANUFACTURER SOURCE RECORD

PR9350 / K20-315 Linear Displacement Transducer Installation Guide
Emerson MHM-97864, Rev. 1.6, March 2026; S2 ordering and wiring tables

Controlled Release Summary

RELEASE ITEM	REQUIRED EVIDENCE
Identity	PR9350-02-S2 recorded
Interface	Connections and companion hardware verified
Configuration	Installed values agree with approved record
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