

PR9350-02-S2

Oil-Proof Displacement Transducer

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.

BRAND	Emerson	ORIGIN	USA
MODEL	PR9350-02-S2	PRODUCT	Oil-Proof Displacement Transducer
FAMILY	PR9350 Displacement Sensors	SOURCE	Emerson MHM-97864, Rev. 1.6, March 2026; S2 ordering and wiring tables

MANUFACTURER SOURCE RECORD

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

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PR9350-02-S2

Product Overview

SYSTEM FUNCTION

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.

FUNCTION 1

Combines ± 25 mm displacement measurement with an oil-proof build

FUNCTION 2

Uses an integral 10 m field cable

FUNCTION 3

Provides color-identified open conductors

FUNCTION 4

Keeps the black shield isolated from the sensor housing

TECHNICAL NOTE

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.

Technical Data and Acceptance

PARAMETER	VERIFIED 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
Cable end	Open conductors
Coil A conductor	Brown
Coil B conductor	White
Coil C conductor	Green
Shield conductor	Black; not connected to housing
Sensor supply	5 Vrms at 3–5 kHz

ENGINEERING 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.

Acceptance Path

1 IDENTITY

The -S2 cable and oil-proof construction are confirmed.

2 WIRING

All four conductors match the official assignment.

3 MECHANICAL

The core is centered and free through the required stroke.

4 FUNCTIONAL PROOF

The complete loop responds correctly in both directions.

Applications and Engineering FAQ

APPLICATION	ENGINEERING CONTEXT
Oil-system actuator feedback	Measures linear travel where the approved installation requires an oil-proof fixed cable.
Hydraulic mechanism position	Provides centered displacement feedback around the defined mechanical zero.
Long field-cable installations	Reaches the termination point with the documented 10 m integral cable.
Replacement of an S2 transducer	Restores the exact cable construction and conductor assignment recorded for the loop.

Model-Specific FAQ - Part 1

QUESTION	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.

FAQ, Related Products and Source

QUESTION	ANSWER
How is the Emerson PR9350-02-S2 shield identified?	The shield conductor is black and Emerson states it is not connected to the sensor housing.
Does Emerson PR9350-02-S2 retain the same measuring span as PR9350-02?	Yes. The documented range is -25 to 0 to +25 mm.
What should be inspected before landing Emerson PR9350-02-S2?	Inspect the entire fixed cable, verify the four conductor identities and confirm the termination drawing for the installed conditioner.
What is the final acceptance test for Emerson PR9350-02-S2?	Prove stable carrier excitation, correct conductor polarity, mechanical centering and bidirectional displacement response while confirming the oil-proof cable installation remains intact.

MANUFACTURER SOURCE RECORD

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Emerson MHM-97864, Rev. 1.6, March 2026; S2 ordering and wiring tables

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MODEL	APTER POWER PAGE
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Bently Nevada 130539-99	View Bently Nevada 130539-99
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