

Emerson - PR9350**PR9350-02-S2**

±25 mm Oil-Proof LVDT with 10 m Fixed Cable

Verified model data

Manufacturer	Emerson
Part number	PR9350-02-S2
Official designation	PR9350/02-S2
Product family	PR9350
Product type	Oil-proof contact LVDT linear displacement transducer
Measuring range	-25 to 0 to +25 mm
Fixed cable	10 m
Cable end	Open
Special construction	Oil proof
Sensitivity	270 mV/V for PR9350/02 family
Sensor supply	5 Vrms, 27 to 50 mA

Selection summary

Emerson PR9350-02-S2 is a special contact LVDT for ±25 mm linear displacement measurement in installations requiring an oil-proof fixed lead.

The official PR9350/02-S2 version has a permanently attached 10 m cable with open ends instead of the standard detachable three-pole connector arrangement.

Before installation or replacement, verify the open-end wire identification, shield treatment, compatible carrier interface, oil exposure, cable route, mechanical linkage, travel and channel calibration.

APTER POWER

Emerson - PR9350**PR9350-02-S2****Additional verified data**

Carrier frequency	3 to 5 kHz
Coil resistance	33.0 to 36.8 Ω between A-B or B-C
Permissible temperature	-20 to +100°C
Relative humidity	0 to 95%, non-condensing
Open-end wire colors	Brown A; white B; green C; black shield

Special Cable

- The S2 version uses a fixed 10 m cable
- Brown, white and green are the coil connections
- The black conductor is the cable shield and is not bonded to the sensor housing

Compatibility

- Use a compatible 5 Vrms carrier interface
- Verify polarity, zero and span after field termination
- Do not treat a standard PR9350/02 connector assembly as mechanically identical

Field Checks

- Inspect the cable along the full route for abrasion and oil-related damage
- Measure both coil halves when troubleshooting continuity
- Validate motion in both directions before restoring protection

Application checkpoints

- Linear stroke measurement in oil-exposed machinery areas
- Contact displacement feedback with a long fixed field cable
- Actuator, valve or mechanism position monitoring requiring open-end termination

Evidence boundary: The official guide identifies the S2 cable and range but does not publish the exact complete-assembly net weight or one complete L×W×H envelope. Those fields remain blank.

Source basis: Emerson PR9350 / K20-315 Installation Guide MHM-97864 Rev 1.6.