

Emerson - PR9350**PR9350-02**

±25 mm LVDT Linear Displacement Transducer

Verified model data

Manufacturer	Emerson
Part number	PR9350-02
Official designation	PR9350/02
Product family	PR9350
Product type	Contact LVDT linear displacement transducer
Measuring range	-25 to 0 to +25 mm
Sensitivity	270 mV/V
Sensor supply	5 Vrms, 27 to 50 mA
Carrier frequency	3 to 5 kHz
Linearity error	±3.5% at 100% range; ±0.5% at 60% range
Coil resistance	33.0 to 36.8 Ω between A-B or B-C

Selection summary

Emerson PR9350-02 is a contact LVDT transducer for direct linear displacement measurement; it is not a speed or trigger sensor.

The official PR9350/02 version provides ±25 mm travel, 270 mV/V nominal sensitivity, a three-pole Cannon connector and an M3-threaded tracing pin.

Before installation or replacement, verify the compatible LVDT interface, carrier supply, mechanical linkage and alignment, available travel, cable and connector, channel scaling and machine-protection bypass procedure.

Emerson - PR9350

PR9350-02

Additional verified data

Permissible temperature	-20 to +100°C
Storage temperature	-40 to +70°C
Relative humidity	0 to 95%, non-condensing
Operating altitude	Below 2000 m
Connector	3-pole Cannon
Tracing pin	M3 threaded rod
Official drawing dimensions	A 108.0; B 127.0; C 65.4; D 76.2; E 123.2; F 25.4 mm
Approximate body weight	255 g, excluding cable and package

Mechanical Linkage

- Connect the measuring object through the M3 threaded tracing pin
- Avoid side load, binding and impact at either travel limit
- Verify the mechanism can traverse the required movement without overtravel

Electrical Interface

- Use the documented three-pole Cannon connection
- Supply the LVDT from a compatible 5 Vrms carrier channel
- Check coil resistance before condemning the mechanical assembly

Commissioning

- Establish a known mechanical zero and confirm both travel directions
- Verify span and repeatability with known positions
- Restore alarms and protection only after a controlled functional test

Application checkpoints

- Valve, guide-vane or actuator stroke measurement
- Machine case expansion or other contact linear displacement measurement
- Position feedback where a spring-free tracing pin can follow the measured object

Evidence boundary: The official 255 g value excludes cable and packaging. The official drawing supplies lettered dimensions rather than one unambiguous L×W×H product envelope; no invented three-axis value is supplied.

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