

Emerson - PR6426**PR6426-000-030**

32 mm Large-Range Eddy Current Sensor

Verified model data

Manufacturer	Emerson
Part number	PR6426-000-030
Official designation	PR6426/000-030
Product family	PR6426
Product type	32 mm large-range eddy current sensor
Threaded sleeve	None
Cable armor	No
Mounting plate	80 × 40 mm
Adapter plug	Included
Total cable length	8 m
Cable end	LEMO

Selection summary

Emerson PR6426-000-030 is a 32 mm large-range eddy current sensor for extended non-contact displacement measurements on large rotating machinery.

The official PR6426/000-030 code specifies the 80×40 mm mounting plate, no cable armor, an adapter plug, 8 m total cable and LEMO end.

Before installation or replacement, verify the large target diameter and free area, mounting-plate alignment, center gap, expected travel, adapter and cable route, converter pairing and monitor range.

APTER POWER

Emerson - PR6426**PR6426-000-030****Additional verified data**

Linear measuring range	8 mm
Nominal center gap	Approximately 5.5 mm
Sensitivity	2 V/mm
Reference target	42CrMo4 / AISI 4140 steel
Minimum shaft diameter	200 mm in the exact-family specifications sheet
Operating temperature	-35 to +175°C; up to +200°C short-term in the exact-family sheet
Protection class	IP66
Standard cable bend radius	25 mm

Plate Mounting

- Mount the documented 80×40 mm plate on a rigid stable surface
- Align the probe face to the target within the PR6426 angular limit
- Maintain the required free area around the 32 mm sensing head

Travel Planning

- Center the operating point near the documented nominal gap
- Include cold-to-hot movement and transient axial travel
- Keep every normal and fault state inside the verified mechanical clearance

Loop Matching

- Use the converter calibrated for the PR6426 sensitivity and range
- Keep the adapter and LEMO connections dry and mechanically supported
- Verify the monitor scale and polarity before enabling trips

Application checkpoints

- Large-turbine differential or axial displacement measurement
- Extended-range shaft position monitoring
- Slow movement or thermal-growth measurement on large rotating machinery

Evidence boundary: The official sheet gives approximately 800 g for the sensor with 1 m unarmored cable, not the exact 8 m PR6426/000-030 assembly. Exact complete-product net weight and full L×W×H remain blank.

Source basis: Emerson PR 642x Installation Guide MHM-97857 Rev 1.11 and exact-family specifications sheet.