

Emerson - PR6426**PR6426-010-140**

32 mm Armored Large-Range Eddy Current Sensor

Verified model data

Manufacturer	Emerson
Part number	PR6426-010-140
Official designation	PR6426/010-140
Product family	PR6426
Product type	32 mm armored large-range eddy current sensor
Threaded sleeve	None
Cable armor	Yes
Mounting plate	80 × 40 mm
Adapter plug	Not included; continuous lead
Total cable length	10 m
Cable end	LEMO

Selection summary

Emerson PR6426-010-140 is an armored 32 mm eddy current sensor for large-range non-contact displacement measurement.

The official PR6426/010-140 code specifies an 80×40 mm mounting plate, armored cable, no intermediate adapter, 10 m continuous lead and LEMO end.

Before installation or replacement, verify plate geometry, target size and alloy, center gap and expected travel, armored-cable routing, bend radius, converter pairing and monitor configuration.

Emerson - PR6426**PR6426-010-140****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
Armored cable bend radius	35 mm

Configuration Match

- Confirm code 010-140 rather than another PR6426 cable arrangement
- Retain the continuous 10 m lead and LEMO termination
- Do not substitute an adapter-based cable without recalibration review

Armor Routing

- Observe the 35 mm minimum bend radius
- Support the heavy cable so it cannot load the sensing plate
- Avoid rubbing, crushing and contact with hot moving structures

Commissioning

- Set the operating gap with thermal movement included
- Check the full channel scale against known mechanical travel
- Restore alarm and trip logic only after controlled validation

Application checkpoints

- Extended-range axial displacement on large turbomachinery
- Differential-expansion or thermal-growth monitoring
- Large-shaft position measurement where armored cable protection is required

Evidence boundary: The official sheet publishes approximately 800 g for a sensor with 1 m unarmored cable, not the exact 10 m armored 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.