

Emerson - PR6423**PR6423-10R-010**

8 mm Reverse-Mount Eddy Current Sensor

Verified model data

Manufacturer	Emerson
Part number	PR6423-10R-010
Official designation	PR6423/10R-010
Product family	PR6423
Product type	8 mm reverse-mount eddy current sensor
Case thread	3/8-24 UNF-2A
Cable armor	No
Mounting form	Reverse mount
Adapter plug	Included
Total cable length	5 m
Cable end	LEMO

Selection summary

Emerson PR6423-10R-010 is a reverse-mount 8 mm eddy current probe for non-contact measurement on critical rotating machinery.

The official PR6423/10R-010 code identifies a 3/8-24 UNF-2A unarmored reverse-mount body, adapter plug, 5 m total cable and LEMO end.

Before installation or replacement, verify the reverse-mount bracket geometry, thread and reach, target diameter and alloy, initial gap, converter pairing, adapter and cable route.

APTER POWER

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Additional verified data

Linear measuring range	2 mm
Initial air gap	0.5 mm
Sensitivity	8 V/mm
Reference target	42CrMo4 / AISI 4140 steel
Minimum shaft diameter	25 mm in the exact-family specifications sheet
Operating temperature	-35 to +180°C for sensor and first 1 m of cable
Protection class	IP66
Standard cable bend radius	25 mm

Reverse Mounting

- Use only a bracket designed for the reverse-mount cable and body orientation
- Confirm thread engagement, rear clearance and access for gap adjustment
- Check the probe angle and free metal zone before tightening

Converter Match

- Use the calibrated converter identified for the PR6423 chain
- Retain the documented polarity and monitor scale after replacement
- Do not infer compatibility from the LEMO connector alone

Troubleshooting

- Check target runout and bracket stiffness when readings vary with speed
- Inspect the adapter, cable and connector before changing calibration
- Confirm shield bonding and separation from high-current wiring

Application checkpoints

- Reverse-mount radial shaft vibration measurement
- Axial displacement or position monitoring where rear probe access is required
- Non-contact eccentricity or speed/key measurement with verified target geometry

Evidence boundary: The official sheet gives approximately 100 g for a PR6423 sensor with 1 m cable, not the exact 5 m reverse-mount assembly. Exact complete-product net weight and a complete L×W×H remain blank.

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