

Emerson - PR6423 / CON021

PR6423-002-030 CON021

8 mm Eddy Current Sensor and Signal Converter Chain

Verified model data

Manufacturer	Emerson
Part number	PR6423-002-030 CON021
Official sensor designation	PR6423/002-030
Converter	CON021
Product family	PR6423 / CON021
Sensor thread	M10 × 1
Cable armor	No
Sleeve length	45 mm
Adapter plug	Included
Total cable length	8 m
Cable end	LEMO

Selection summary

Emerson PR6423-002-030 CON021 combines an 8 mm non-contact probe with a CON021 converter for shaft displacement and vibration measurement.

The sensor order code defines an M10 × 1 unarmored body, 45 mm sleeve, adapter plug, 8 m total cable and LEMO end; CON021 supplies the matched signal conversion.

Before installation, confirm the sensor/converter pairing, shaft material and diameter, mechanical reach, working gap, adapter condition, cable routing, converter supply and monitor scale.

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Additional verified data

Linear measuring range	2 mm
Nominal sensitivity	8 V/mm
Minimum shaft diameter	25 mm
Sensor protection	IP66
Sensor plus 1 m cable weight	Approximately 0.10 kg; component value
CON021 converter net weight	Approximately 0.12 kg; component value

Mechanical Fit

- Use the documented M10 × 1 mounting interface
- Confirm the 45 mm sleeve reaches the target without side load
- Keep the probe square to the shaft and outside nearby-metal interference zones

Converter Match

- Connect the LEMO sensor end to the verified CON021 input
- Match output polarity and range to the receiving monitor
- Preserve the calibrated chain identity and grounding method

Fault Checks

- Compare raw converter output with the mechanical gap
- Inspect the adapter and cable before changing alarm settings
- Check target runout and bracket resonance when noise follows speed

Application checkpoints

- Radial shaft-vibration monitoring on turbines
- Axial position and eccentricity measurement on compressors
- Speed/key sensing with a verified ferromagnetic target

Evidence boundary: Official component weights are available only for the sensor with 1 m cable and for the converter separately. The exact complete-chain net weight and one overall W × H × D envelope are not published, so dedicated Weight and Dimensions fields remain blank.

Source basis: Emerson PR6423 and CON021 official specification sheets.