



Emerson EPRO PR6423/010-010 CON021

8 mm Eddy-Current Sensor with CON021 Signal Converter

Product scope

- Measures shaft movement without physical contact.
- Uses an 8 mm probe with a nominal 2 mm measuring range.
- Pairs with the CON021 converter for static and dynamic output.
- Requires matched cable length, target material and probe-gap setup.

Manufacturer source

Emerson PR6423 8 mm Eddy Current Sensor product data sheet.

This English product record summarizes manufacturer-verified function, operating principle, application and exact-model matching requirements.

Request a fast quote	Product reference	
Email: info@apterpower.com Phone: +86 18106909650 apter.com/inquiry.php	Emerson EPRO PR6423/010-010 CON021	

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Emerson EPRO PR6423/010-010 CON021

8 mm Eddy-Current Sensor with CON021 Signal Converter

Manufacturer-source product record

This record consolidates exact-model facts from the manufacturer references listed below. It is included to identify the ordering configuration before the retained source pages.

Linear measurement range	2 mm (80 mil)
Initial air gap	0.5 mm (20 mil)
Incremental scale factor	8 V/mm (203.2 mV/mil), +/-5% at 0 to 45 deg C
Linearity deviation	+/-0.025 mm at 0 to 45 deg C
Minimum shaft diameter	25 mm
Probe operating temperature	-35 to +180 deg C with 1 m cable
Cable and connector temperature	-35 to +150 deg C
Probe protection	IP66
Probe weight	Approximately 100 g with 1 m cable
Probe tip diameter	8 mm
Case thread	M10 x 1
Cable armour	Included
Armoured cable diameter	6 mm
Minimum armoured-cable bend radius	35 mm
Sleeve length code	25 mm
Adapter plug	Included after the first metre
Total cable length code	5.0 m
Cable end	Lemo connector
Standard target material	42CrMo4 / AISI 4140 ferromagnetic steel
Converter frequency range	0 to 20 kHz (-3 dB)
Converter rise time	Less than 15 microseconds
Converter operating temperature	-30 to +100 deg C
Converter protection	IP20
Converter supply	-23 to -32 V for -4 to -20 V output
Converter alternate supply	-21 to -32 V for -2 to -18 V output
Converter weight	Approximately 120 g
Converter mounting	Four M5 x 20 screws

Supply/output terminal capacity	Maximum 1.5 mm2 conductor
PR6423 standard-range linearity	1.0% maximum with CON021

Official references

- Emerson PR6423 8 mm Eddy Current Sensor product data sheet.
- Emerson CON021 Eddy Current Signal Converter product data sheet.

Only the exact configuration shown above is represented. Adjacent model variants, optional assemblies and system accessories are not treated as part of this ordering identity.

Function, operating principle and application

The notes below explain how this product is used and how its documented signal, power or control path operates. They remain limited to the manufacturer evidence for this model.

Function

The sensor system measures shaft displacement and vibration without mechanical contact in rotating machinery.

Operating principle

The probe produces an eddy-current field at the conductive target. Gap changes alter the coil response, and the CON021 converter produces the proportional dynamic and static output signal.

Application

It is used for radial vibration, shaft position and machine-protection measurements where an 8 mm probe and 2 mm range are appropriate.

Replacement boundary

Treat the probe, extension cable and converter as a calibrated system; verify suffix, cable length, target material, mounting thread and gap voltage together.



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