

PR6423 AND CON021

Product Data Sheet

PR6423/003-030 CON021

Eddy Current Probe Converter

PROBE TIP DIAMETER	PROBE CASE THREAD	THREADED CASE LENGTH	TOTAL SENSOR CABLE LENGTH
8 mm	M10 x 1	55 mm	8 m

Epro PR6423/003-030 CON021 is a eddy current probe converter in the PR6423 and CON021 range. It combines a PR6423 non-contact eddy-current probe with the documented CON021 signal converter for rotating machinery measurement. The 003-030 order code selects the probe geometry and cable arrangement shown in the manufacturer ordering table.

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VERIFIED TECHNICAL DATA

Probe tip diameter	8 mm
Probe case thread	M10 x 1
Threaded case length	55 mm
Total sensor cable length	8 m
Adapter plug option	With adapter plug
Cable termination	Male Lemo
Linear displacement span	2 mm
Incremental scale factor	8 V/mm $\pm 5\%$ at 0 to +45 deg C
Linearity deviation	± 0.025 mm at 0 to +45 deg C
Minimum shaft diameter	25 mm

ADDITIONAL PRODUCT DATA

Reference shaft material	42CrMo4 / AISI 4140
Probe enclosure protection	IP66
CON021 frequency response	0 to 20000 Hz at -3 dB
CON021 rise time	Less than 15 micros
CON021 operating temperature	-30 to +100 deg C

DOCUMENTED USE SETTINGS

Steam Turbine and Electric Power Generation: Steam Turbine Power Generation.

Oil Refining and Natural Gas Processing: Refinery Compression and Processing.

Chemical Manufacturing and Industrial Process Production: Industrial Chemical Production.

SYSTEM COMPATIBILITY

Epro PR6423/003-030 CON021 is a eddy current probe converter in the PR6423 and CON021 range. It combines a PR6423 non-contact eddy-current probe with the documented CON021 signal converter for rotating machinery measurement. The 003-030 order code selects the probe geometry and cable arrangement shown in the manufacturer ordering table.

PRODUCT EVIDENCE

Emerson PR6423 specifications, December 2024; CON021 specifications, August 2017.

AMIKON PRODUCT SUPPORT

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