

Eddy Current Signal Converter

Sensor Signal Converter designed for critical turbo machinery applications such as steam, gas and hydro turbines, compressors, pumps and fans to measure radial and axial shaft displacement, position, eccentricity and speed/key.

Dynamic Performance

Frequency Range (-3 dB) 0 to 20,000 Hz

Rise Time <15µs

NOTE: Designed for PR6422, PR6423, PR6424, PR6425, PR6426
For Extended Range Use: CON041/91x-xxx
PR6425 Requires Extended Range Converter

Environmental

Operating Temperature Range -30 to 100°C (-22 to 212°F)

Shock and Vibration 5g @ 60Hz @ 25°C (77°F)

Protection Class IP20

Power & Electrical

Supply Voltage Range -23V to -32V (Output Range -4V to -20V)

-21V to -32V (Output Range -2V to -18V)

Physical

Housing Material / Weight PA 6.6 / ~60 grams (2.12 oz)

Mounting Din Rail

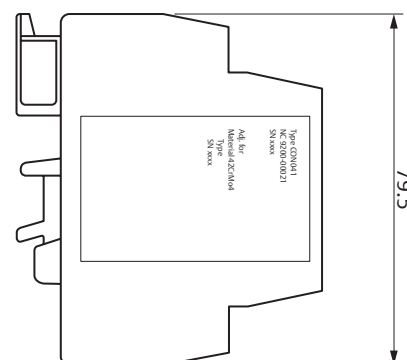
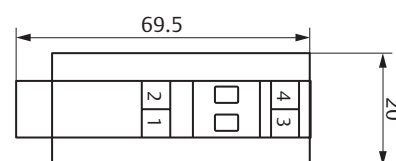
Connections Screw Terminal (Max. 1.5mm², Wire-end Sleeves)

Accessories

BOX 030 Housing for Converter Mounting

Order Matrix

Part Number	Sensor Type	Measuring Range	Linearity Error
CON041	PR6422	1.0mm (Standard Range)	≤ 1.5%
	PR6423	2.0mm (Standard Range)	≤ 1.0%
	PR6424	4.0mm (Standard Range)	≤ 1.5%
	PR6426	8.0mm (Standard Range)	≤ 1.5%
CON041/912-015	PR6422	1.5mm (Extended Range)	≤ 2.0%
CON041/913-030	PR6423	3.0mm (Extended Range)	≤ 1.5%
CON041/913-040	PR6423	4.0mm (Extended Range)	≤ 2.0%
CON041/914-060	PR6424	6.0mm (Extended Range)	≤ 1.0%
CON041/914-080	PR6424	8.0mm (Extended Range)	≤ 1.5%
CON041/914-100	PR6424	10.0mm (Extended Range)	≤ 2.0%
CON041/915-040	PR6425	4.0mm (Standard Range)	≤ 1.5%



CON041/915-060	PR6425	6.0mm (Extended Range)	≤ 2.0%
CON041/915-080	PR6425	8.0mm (Extended Range)	≤ 3.0%
CON041/915-100	PR6425	10.0mm (Extended Range)	≤ 4.0%
CON041/916-120	PR6426	12.0mm (Extended Range)	≤ 1.5%
CON041/916-160	PR6426	16.0mm (Extended Range)	≤ 2.0%
CON041/916-200	PR6426	20.0mm (Extended Range)	≤ 2.5%
CON041/916-240	PR6426	24.0mm (Extended Range)	≤ 3.5%

Agency Approvals

Dependent on Installation Area and Safety Barriers, various CSA and ATEX agency approvals are available with the standard version. Supported Standards: DIN 45670, ISO 10817-1, API 670

Agency	CON041
ATEX- Ex- application, intrinsic safety (iA), Use with current limiting (e.g.:safety barrier):	 II2G EEx ia IIC T4 -20°C < Ta < 67°C
ATEX- Ex- application, intrinsic safety (iA), Use with current limiting (e.g.:safety barrier):	 II2G EEx ia IIC T3 -20°C < Ta < 99°C
ATEX- Ex- application: Protection by housing (tD), Zone 20 dust hazardous areas	
CSA- Ex- application, intrinsic safety (iA), Use with current limiting (e.g.:safety barrier):	Class I, Div.1 Groups A,B,C,D Ex ia T4 -25°C < Ta < 62°C
CSA- Ex- application, intrinsic safety (iA), Use with current limiting (e.g.:safety barrier):	Class I, Div.1 Groups A,B,C,D Ex ia T3 -25°C < Ta < 85°C
CSA- Ex- application, intrinsic safety (iA), Use with current limiting (e.g.:safety barrier) and housing IP65 Type 4	
CSA- Ex- application, intrinsic safety (iA), Use with current limiting (e.g.:safety barrier) and housing IP65 Type 4	
CSA- Ex- application: non- sparking (nA), Division 2 areas where explosive materials seldom or only transiently appear.	Class I, Div. 2 Groups A,B,C,D Ex nA II T4 AEx nA II T4 -25°C < Ta < 67°C
	Mounted in a housing ≥IP54: according to CAN/CSA E60079-15-02 respectively UL60079-15-02
CSA- Ex- application: non- sparking (nA), Division 2 areas where explosive materials seldom or only transiently appear.	Class I, Div. 2 Groups A,B,C,D Ex nA II T3 AEx nA II T3 -25°C < Ta < 85°C
	Mounted in a housing ≥IP54: according to CAN/CSA E60079-15-02 respectively UL60079-15-02

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