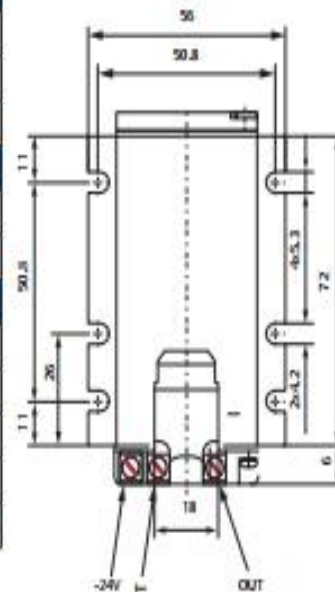


Eddy Current Signal Converter

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 20000 Hz
Rise Time	<15 μ s
NOTE: Designed for PR6422, PR6423, PR6424, PR6425, PR6426, PR 6453 For extended range use: CON 021 01 to 004 PR6425 always requires extended range converter	
Environmental	
Operating Temperature Range	-30 to 100°C (-22 to 212°F)
Shock and Vibration	5g @ 60 Hz @ 25°C (77°F)
Protection Class	IP20
Power & Electrical	
Supply Voltage Range	-2.3V to -3.2V (Output Range -4V to -20V)
	-2.1V to -3.2V (Output Range -2V to -18V)
Physical	
Housing Material	LMgSi 0.5 F22
Weight	~1.20 grams (4.24 oz)
Mounting	4 Screws M5x20 (Included in Delivery)
Connections:	Transducer Self-Locking Lemo-Plug
	Supply/Output Screw Terminal Type (max. 1.5mm ² wire)



HighFive PLC

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AMS


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Compliance and Certifications	
CE	2014/30/EU 2014/34/EU 2011/65/EU EN61326-1 DIN EN 50581
ATEX	EN 60079-0:2009 EN 60079-11:2012
IEGEx	IEC 60079-0:2007-10; Edition 5 IEC 60079-11:2011; Edition: 6.0 IEC 60079-26:2006; Edition: 2
CSA	CAN/CSA-C22.2 NO. 0-M91 CAN/CSA-C22.2 NO. 157-92 CAN/CSA-C22.2 NO. 213-M1987 CAN/CSA-E60079-15-02 (R2006) CAN/CSA-C22.2 NO. 25-1966 CAN/CSA-C22.2 NO. 61010-1-04 ANSI/UL Standard 913-2004 ANSI/UL Standard 1604-1995 UL 60079-15 2002 UL 61010-1

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Hazardous Area Approvals

Intrinsic Safety (IA)	
ATEX	II 2 G Ex ia IIC T4 Gb, -20°C ≤ Ta ≤ 80°C (Use with current limiting, e.g.: safety barrier)
IEG-Ex	Ex ia IIC T4 Gb, -20°C ≤ Ta ≤ 80°C (Use with current limiting, e.g.: safety barrier)
CSA	Class I Division 1, Groups A, B, C, D, T4 T4: -25°C ≤ Ta ≤ 80°C (Use with current limiting, e.g.: safety barrier)
Non-sparking (nA)	
CSA	Class I Division 2, Groups A, B, C, D Ex nA II T3..T4 AEx nA II T3..T4 T4: -25°C ≤ Ta ≤ 80°C

Ordering Information

Model Number	Sensor Type	Measuring Range	Linearity Error
CON021	PR6-422	1.0mm (Standard Range)	≤ 1.5%
	PR6-423	2.0mm (Standard Range)	≤ 1.0%
	PR6-424	4.0mm (Standard Range)	≤ 1.5%
	PR6-426	8.0mm (Standard Range)	≤ 1.5%
CON021/β 12-015	PR6-422	1.5mm (Extended Range)	≤ 2.0%
CON021/β 13-030	PR6-423	3.0mm (Extended Range)	≤ 1.5%
CON021/β 13-040	PR6-423	4.0mm (Extended Range)	≤ 2.0%
CON021/β 14-060	PR6-424	6.0mm (Extended Range)	≤ 1.0%
CON021/β 14-080	PR6-424	8.0mm (Extended Range)	≤ 1.5%
CON021/β 14-100	PR6-424	10.0mm (Extended Range)	≤ 2.0%
CON021/β 15-040	PR6-425	4.0mm (Standard Range)	≤ 1.5%
CON021/β 15-060	PR6-425	6.0mm (Extended Range)	≤ 2.0%
CON021/β 15-080	PR6-425	8.0mm (Extended Range)	≤ 3.0%
CON021/β 15-100	PR6-425	10.0mm (Extended Range)	≤ 4.0%
CON021/β 16-120	PR6-426	12.0mm (Extended Range)	≤ 1.5%
CON021/β 16-160	PR6-426	16.0mm (Extended Range)	≤ 2.0%
CON021/β 16-200	PR6-426	20.0mm (Extended Range)	≤ 2.5%
CON021/β 16-240	PR6-426	24.0mm (Extended Range)	≤ 3.5%

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