## **32mm Eddy Current Sensor**

Non-contact sensor 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 motion.

Dynamic Performance			
Sensitivity		2 V/mm (50.8 mV/mil) ≤ ±1.5% max	
Air Gap (Center)		Approx. 5.5 mm (0.22") Nominal	
Long Term Drift		< 0.3%	Initial gap Linear Measuring Range Linear Range Linear Measuring Range Linear Measuring Range Linear Ra
Range	Static	±4.0 mm (0.157")	2.0
Target			6.0 8.0 10.0
Target/Surface Material		Ferromagnetic Steel (42 Cr Mo 4 Standard)	140 140 160 180 200
Maximum Surface Speed		2,500 m/s (98,425 ips)	Uout Mode-218V [V] Mode -420V
Shaft Diameter		≥200 mm (7.87")	
Environmental			80 mm DIAMETER CLEAR OF FERROUS MATERIAL  32 mmø , 22 mm
Operating Temperature Range		-35 to 180°C (-31 to 356°F)	OF FERROUS MATERIAL  A DEPARTMENT OF THE PROPERTY OF THE PROPE
Temperature Excursions <4 Hours		200°C (392°F)	EPOXY RESIN CAP
Maximum Cable Temperature		200°C (392°F)	80 mm 08
Temperature Error (at +23 t	to 100°C)	-0.3%/100°K Zero Point	40 mm
		<0.15%/10°K Sensitivity	
Pressure Resistance To Sensor Head		6,500 hpa (94 psi)	04 mm 0 mm 0 mm
Shock and Vibration		5g (49.05 m/s²) @ 60Hz @ 25°C (77°F)	31 mm 31 mm
Physical			S E E S S S S S S S S S S S S S S S S S
Material		Sleeve – Stainless Steel, Cable – PTFE	CABLE RADIU JORED
Weight (Sensor & 1M Cable, no Armor)		~800 grams (28.22 oz)	MINIMAL CABLE BENDING RADIUS ARMORED 35 mm NON-ARMORED 251
	— LEMO CONNECTOR	SENSOR ID'S COVE	CABLE CABLE ERED BY SHRINK WRAP



OVERALL CABLE LENGTH (TYPICAL LENGTHS 4 m, 5 m, 8 m, 10 m)





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Compliance and Certifications				
CE	2014/30/EU (EN 61326-1) 2014/34/EU 2011/65/EU			
ATEX	EN 60079-0 EN 60079-11			
IEC-Ex	IEC 60079-0 IEC 60079-11 IEC 60079-26			
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			

## **Hazardous Area Approvals**

Intrinsic Safety (iA)	
ATEX / IEC-Ex	Area classification depends on converter, see converter documentation for details, sensor temperature classification: T6: Ta ≤ 84°C T4: Ta ≤ 114°C T3: Ta ≤ 160°C
CSA	Area classification depends on converter, see converter documentation for details, sensor temperature classification: T6: Ta ≤ 64°C T4: Ta ≤ 114°C T3: Ta ≤ 160°C
Non-sparking (nA)	
CSA	Area classification depends on converter, see converter documentation for details, sensor temperature classification: T6: Ta ≤ 64°C T4: Ta ≤ 114°C T3: Ta ≤ 160°C

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Order Matrix	PR6426	X	Х	Х	-	Х	Х	Х
Sleeve Thread	NO THREAD	0						
Armored Cable	WITH WITHOUT		1 0					
Total Sensor Length	Mounting Plate 80 mm x 40 mm			0				
Adaptor Plug	WITH WITHOUT					0		
Total Cable Length	0(4 m), 1(5 m), 2(6 m), 3(8 m), 4(10 m)						Х	
Cable End	LEMO OPEN							0

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