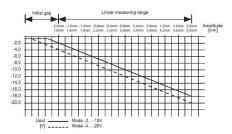
## **16mm Eddy Current Sensor**

Non-contact sensor designed for critical turbomachinery applications such as steam, gas and hydro turbines, compressors, pumps and fans to measure radial and axial shaft dynamic displacement; position, eccentricity and speed/key.

Dynamic Performance				
Sensitivity/Linearity	4 V/mm (101.6 mV/mil) ≤ ±1.5%			
Air Gap (Center)	Approx. 2.7 mm (0.11") Nominal			
Long Term Drift	< 0.3%			
Range: Static	±2.0 mm (0.079")			
Dynamic	0 to 1,000μm (0 to 0.039")			
Target				
Target/Surface Material	Ferromagnetic Steel (42 Cr Mo4 Standard)			
Maximum Surface Speed	2,500 m/s (98,425 ips)			
Shaft Diameter	≥80mm			
Environmental				
Operating Temperature Range	-35 to 150°C (-31 to 302°F)			
Temperature Error	<4%/100°K (API 670 Compliant)			
Pressure Resistance to Sensor Head	10,000 hPa (145 psi)			
Shock and Vibration	5g @ 60Hz @ 25°C (77°F)			
Physical				
Material	Sleeve – Stainless Steel, Cable – PTFE			
Weight (Sensor & 1M Cable, no Armor)	~200 grams (7.05 oz)			















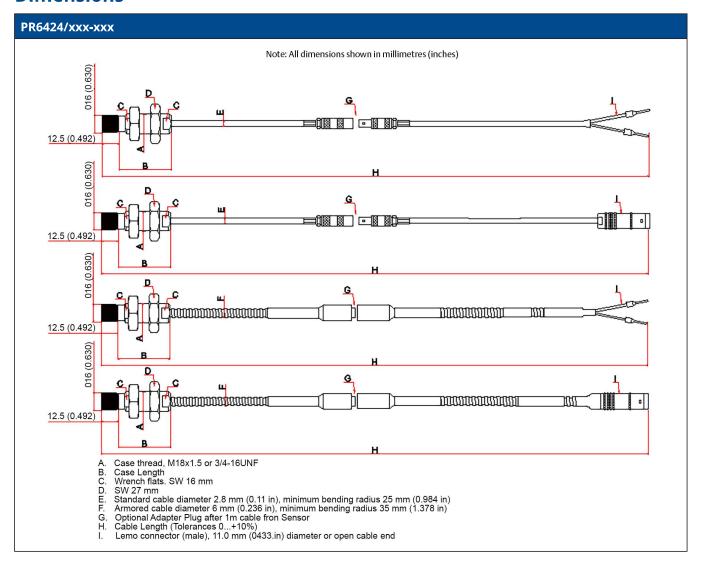
Compliance and Certifications					
CE	2014/30/EU (EN 61326-1) 2014/34/EU 2011/65/EU				
ATEX	EN 60079-0 EN 60079-11				
IEC-Ex	IEC 60079-0 IEC 60079-11 IEC 60079-26				
CSA	CAN/CSA-C22.2 NO. 0-M91 CAN/CSA-C22.2 NO. 157-92 CAN/CSA-C22.2 NO. 213-M1987 CAN/CSA-E60079-15-02 (R2006) CAN/CSA-C22.2 NO. 25-1966 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**

Compliance and Certifications	
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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## **Dimensions**



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## **Ordering Information**

Order Matrix	PR6424 /	Х	Х	Х	-	Х	Х	Х
Sleeve Thread	M18x1.5 3/4"-16 UNF	0 1						
Armored Cable	WITH WITHOUT		1 0					
Total Sensor Length C=Cx +12.5mm	0(Cx=40mm), 1(50), 2(60), 3(70), 4(80), 5(90), 6(100), B(150), G(200), M(250), R(290)			X				
Adaptor Plug	WITH WITHOUT					0		
Total Cable Length	0(4m), 1(5m), 3(8m), 4(10m)						Χ	
Cable End	LEMO OPEN							0

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