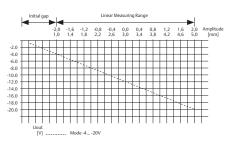
16mm Eddy Current Sensor

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.

Dunamic Doufournance						
Dynamic Performance						
Sensitivity		4 V/mm (101.6 mV/mil) ±2.0% max				
Air Gap (Center)		Approx. 2.6 mm (0.10") Nominal				
Long Term Drift		< 0.3%				
Range:	Static	±2.0 mm (0.079")				
	Dynamic	_				
Dynamic		0 to 1,000 μm (0 to 0.039")				
Target						
Target/Surface Material		Ferromagnetic Steel				
		(42 Cr Mo 4 Standard)				
Maximum Surface Spee	d	2,500 m/s (98,425 ips)				
Shaft Diameter		≥80 mm				
Linearity Error		≤ ±2.0%				
Environmental						
Operating Temperature Range		0 to 380°C (32 to 716°F)				
Temperature Excursions <4 Hours		400°C (752°F)				
Maximum Cable Temperature		First Meter: -40 to 380°C (-40 to 716°F)				
		Remaining Length: -40 to 175°C (-40 to 347°F)				
Temperature Error		<4%/100°K API Compliant				
Pressure Resistance To	Sensor Head	2,000 hpa (29 psi)				
Shock and Vibration		5g @ 60Hz @ 25°C (77°F)				
Physical						
Material		Sleeve – Stainless Steel, Cable – PTFE				
Weight (Sensor & 1M Cable)		~500 grams (17.64 oz)				









Specifications Sheet

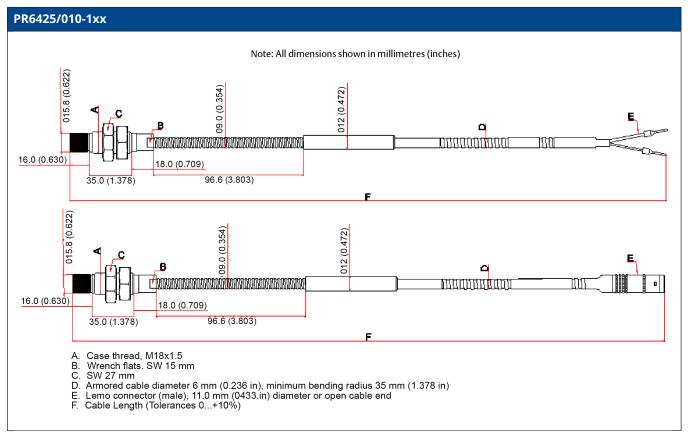
August 2024

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 \leq 84°C T4: Ta \leq 114°C T3: Ta \leq 160°C
CSA	Area classification depends on converter, see converter documentation for details, sensor temperature classification: T6: Ta \leq 64°C T4: Ta \leq 114°C T3: Ta \leq 160°C
Non-sparking (nA)	
CSA	Area classification depends on converter, see converter documentation for details, sensor temperature classification: T6: Ta \leq 64°C T4: Ta \leq 114°C T3: Ta \leq 160°C

Dimensions



Ordering Information

Order Matrix	PR6425	х	х	x	-	Х	х	x
Sleeve Thread	M18x1.5	0						
Armored Cable	WITH		1					
Total Sensor Length	0(69 mm)			0				
Adaptor Plug	WITHOUT					1		
Total Cable Length	0(4 m), 1(5 m), 2(6 m), 3(8 m), 4(10 m)						Х	
Cable End	LEMO OPEN							0 1

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