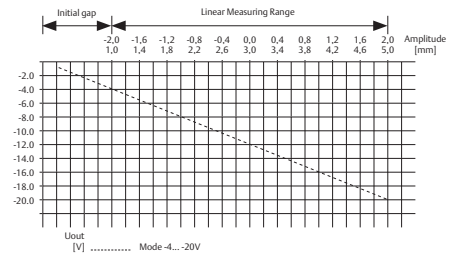


# 16mm Eddy Current Sensor

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.



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 0 to 1,000 μm (0 to 0.039")
Target	
Target/Surface Material	Ferromagnetic Steel (42 Cr Mo 4 Standard)
Maximum Surface Speed	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 200°C (-40 to 392°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)

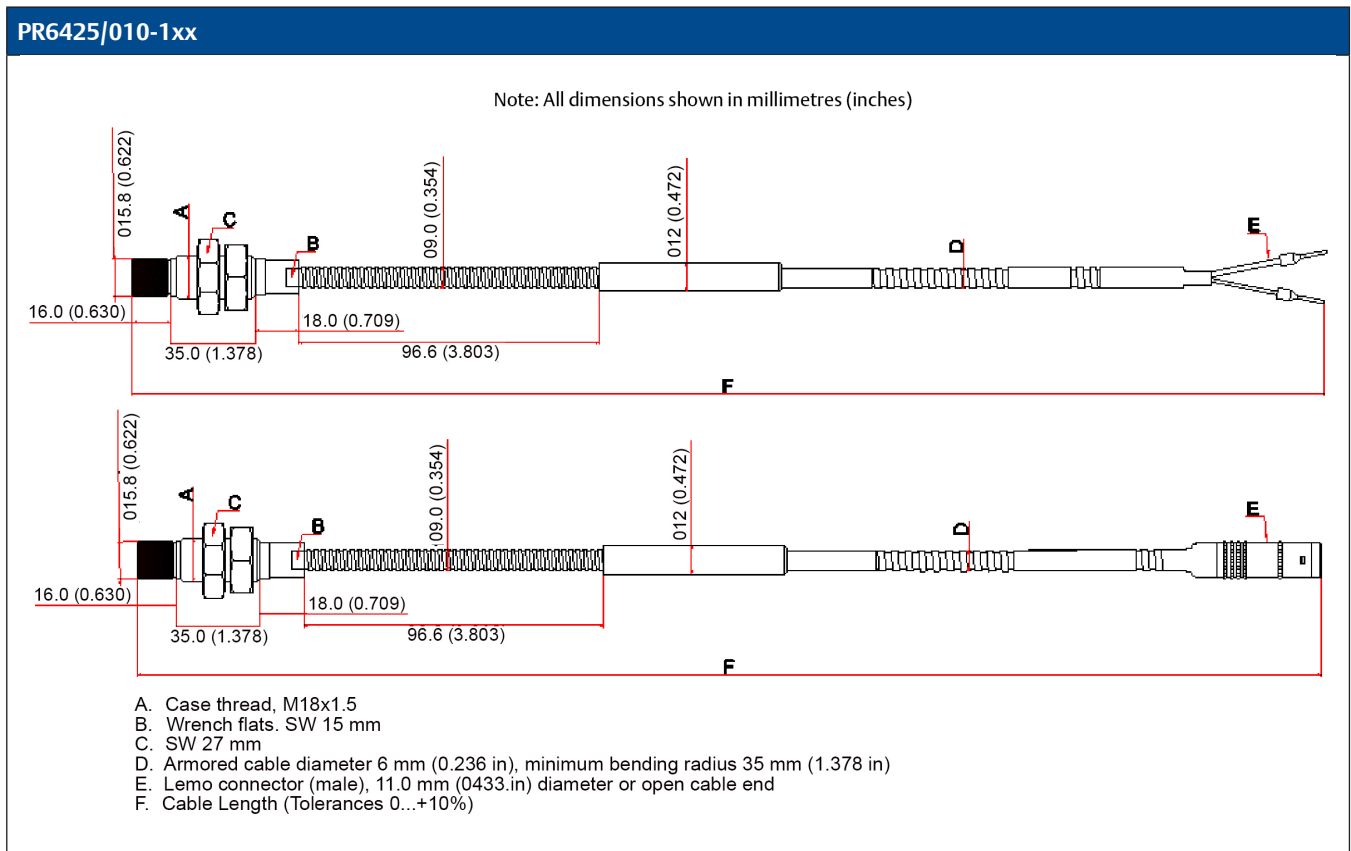


Compliance and Certifications	
CE	2014/30/EU (EN 61326-1) 2014/34/EU 2011/65/EU
ATEX	EN 60079-0 EN 60079-11
IEC-Ex	IEC 60079-0 IEC 60079-11 IEC 60079-26
CSA	CAN/CSA-C22.2 NO. 0-M91 CAN/CSA-C22.2 NO. 157-92 CAN/CSA-C22.2 NO. 213-M1987 CAN/CSA-E60079-15-02 (R2006) CAN/CSA-C22.2 NO. 25-1966 CAN/CSA-C22.2 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: $T_a \leq 84^{\circ}\text{C}$ T4: $T_a \leq 114^{\circ}\text{C}$ T3: $T_a \leq 160^{\circ}\text{C}$
CSA	Area classification depends on converter, see converter documentation for details, sensor temperature classification: T6: $T_a \leq 64^{\circ}\text{C}$ T4: $T_a \leq 114^{\circ}\text{C}$ T3: $T_a \leq 160^{\circ}\text{C}$
Non-sparking (nA)	
CSA	Area classification depends on converter, see converter documentation for details, sensor temperature classification: T6: $T_a \leq 64^{\circ}\text{C}$ T4: $T_a \leq 114^{\circ}\text{C}$ T3: $T_a \leq 160^{\circ}\text{C}$

## Dimensions



## Ordering Information

Order Matrix	PR6425	X	X	X	-	X	X	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)						X	
Cable End	LEMO OPEN							0 1

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