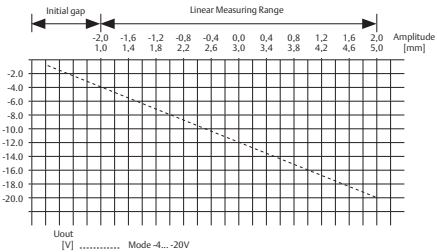


16mm Eddy Current Sensor

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	
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 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)

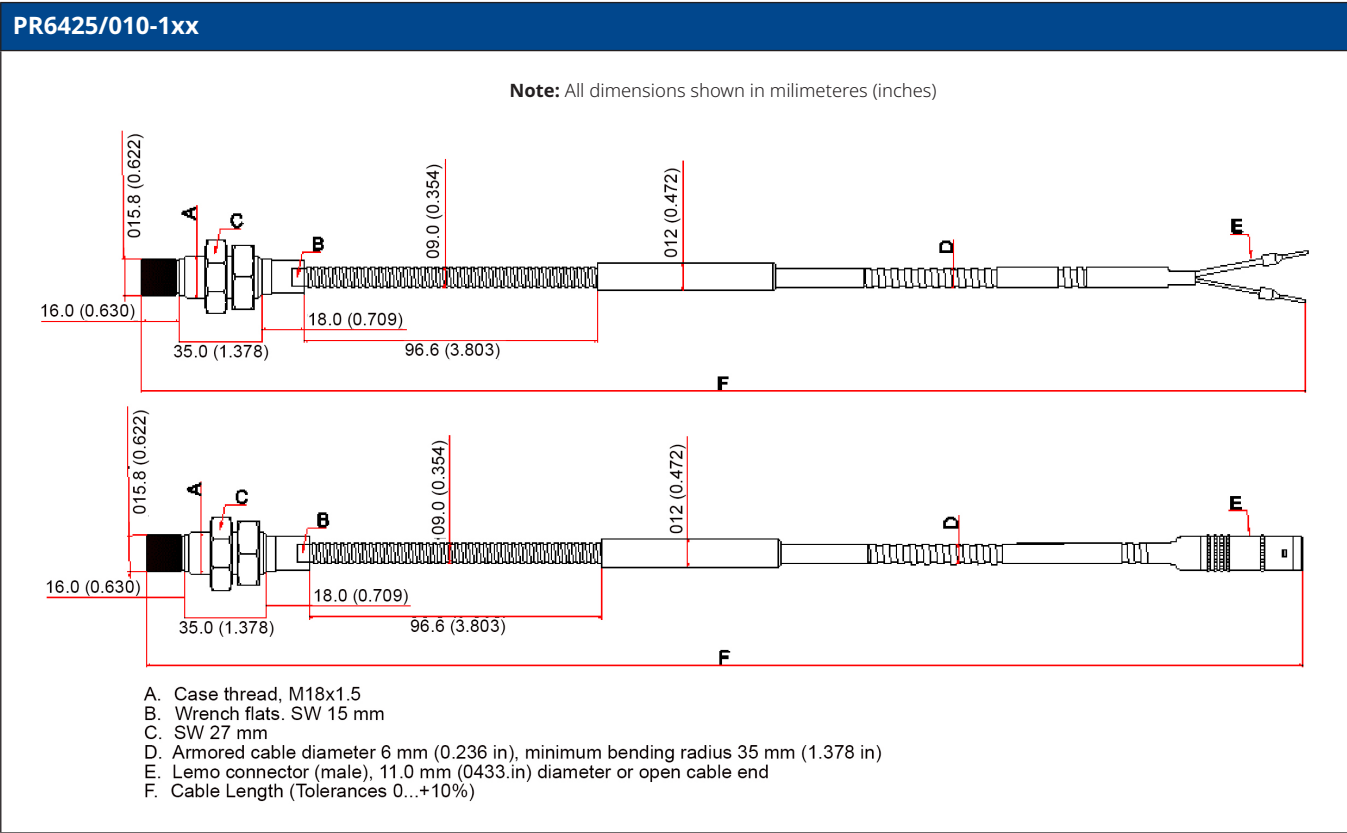


Compliance and Certifications	
CE	2014/30/EU (EN 61326-1) 2014/34/EU 2011/65/EU
ATEX	EN 60079-0 EN 60079-11
IEC-Ex	IEC 60079-0 IEC 60079-11 IEC 60079-26
CSA	CAN/CSA-C22.2 NO. 0-M91 CAN/CSA-C22.2 NO. 157-92 CAN/CSA-C22.2 NO. 213-M1987 CAN/CSA-E60079-15-02 (R2006) CAN/CSA-C22.2 NO. 25-1966 CAN/CSA-C22.2 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), 3(8 m), 4(10 m)						X	
Cable End	LEMO OPEN							0 1

©2024, Emerson. All rights reserved.

The Emerson logo is a trademark and service mark of Emerson Electric Co. The AMS logo is a mark of one of the Emerson family of companies. All other marks are the property of their respective owners.

The contents of this publication are presented for informational purposes only, and while diligent efforts were made to ensure their accuracy, they are not to be construed as warranties or guarantees, express or implied, regarding the products or services described herein or their use or applicability. All sales are governed by our terms and conditions, which are available on request. We reserve the right to modify or improve the designs or specifications of our products at any time without notice.

Contact Us
🌐 www.emerson.com/contactus

