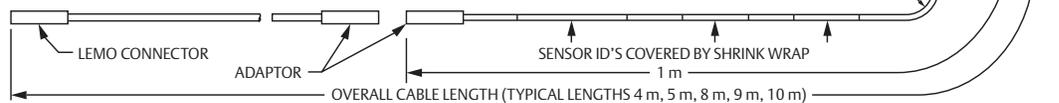
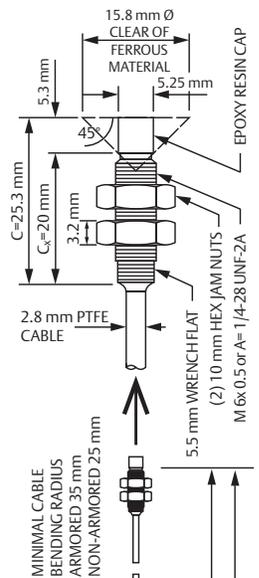
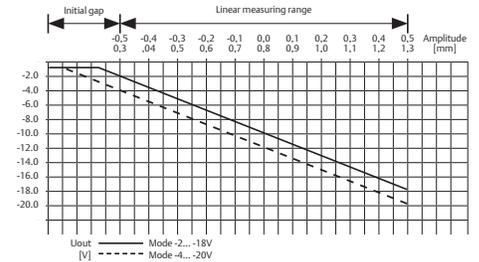


5mm Eddy Current Sensor

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.



Dynamic Performance	
Sensitivity	16 V/mm (406.4 mV/mil) $\leq \pm 1.5\%$ max
Air Gap (Center)	Approx. 0.8 mm (0.03") Nominal
Long-Term Drift	< 0.3%
Range:	Static ± 0.5 mm (0.020")
	Dynamic 0 to 250 μ m (0 to 0.010")
Target	
Target/Surface Material	Ferromagnetic Steel (42 Cr Mo 4 Standard)
Maximum Surface Speed	2,500 m/s (98,425 ips)
Shaft Diameter	≥ 20 mm
Environmental	
Operating Temperature Range	-35 to 180°C (-31 to 356°F)
Temperature Excursions <4 Hours	200°C (392°F)
Maximum Cable Temperature	200°C (392°F)
Temperature Error	<2%/100°K (API Compliant)
Pressure Resistance to Sensor Head	10,000 hpa (145 psi)
Shock and Vibration	5g @ 60Hz @ 25°C (77°F)
Physical	
Material	Sensor – Stainless Steel, Cable – PTFE
Weight (Sensor & 1 m Cable, No Armor)	~100 grams (3.53 oz)



Compliance and Certifications	
CE	2014/30/EU 2014/34/EU 2011/65/EU EN61326-1 DIN EN 50581
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 / 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

Order Matrix		PR6422 /	X	X	X	-	X	X	X
Sleeve Thread	M6x0.5 1/4-28UNF-2A	0 1							
Armored Cable	WITH WITHOUT		1 0						
Total Sensor Length C=Cx+5.3 mm	0(Cx=25 mm), 1(30 mm), 2(40 mm), 3(50 mm), 4(60 mm), 5(70 mm), 6(80 mm), 7(90 mm), 8(100 mm)*			X					
Adaptor Plug	WITH WITHOUT					0 1			
Total Cable Length	0(4 m), 1(5 m), 2(6 m), 3(8 m), F(9 m), 4(10 m)							X	
Cable End	LEMO OPEN								0 1

* If armored cable is chosen, the maximum sleeve length is limited to 70mm.

Product Accessories

Model Number	Product Description
PR 6480	Probe Holder
MPT 064	Metal Protection Tube

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