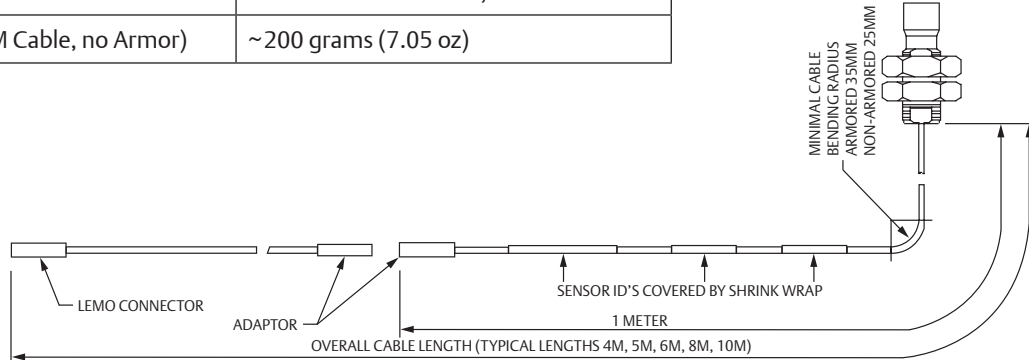
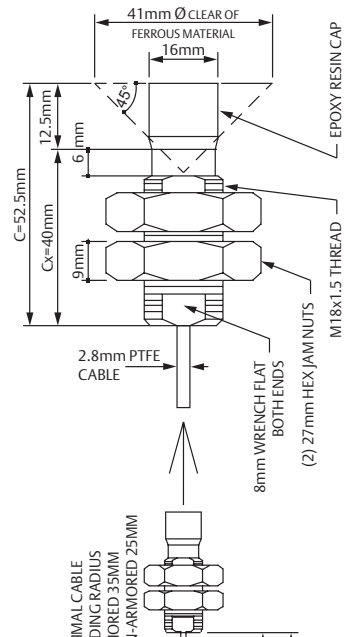
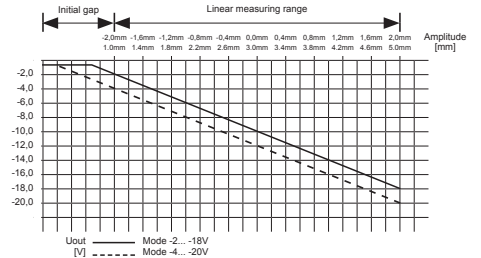


16mm Eddy Current Sensor

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) \pm 1.5%
Air Gap (Center)		Approx. 2.7 mm (0.11") Nominal
Long Term Drift		< 0.3%
Range:	Static	\pm 2.0 mm (0.079")
	Dynamic	0 to 1,000 μ m (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		\geq 80mm
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		<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 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

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

Order Matrix	PR6424 /	X	X	X	-	X	X	X
Sleeve Thread	M18x1.5	0						
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), 7(110), 8(120), 9(130), A(140), B(150), C(160), D(170), E(180), F(190), G(200), H(210), J(220), K(230), L(240) M(250), N(260), P(270), Q(280), R(290)			X				
Adaptor Plug	WITH WITHOUT					0 1		
Total Cable Length	0(4m), 1(5m), 2(6m), 3(8m), 4(10m)						X	
Cable End	LEMO OPEN							0 1

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