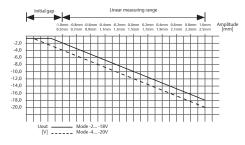
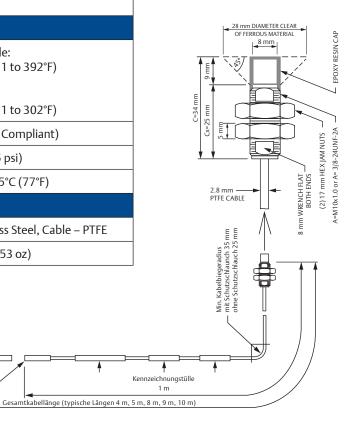
8 mm Eddy Current Sensor

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		8 V/mm (203.2 mV/mil) ≤ ±1%					
Air Gap (Center)		Approx. 1.5 mm (0.06") Nominal					
Long Term Drift		< 0.3%					
Range:	Static	±1 mm (0.040")					
	Dynamic	0 to 500 μm (0 to 0.020")					
Target							
Target/Surface Material		Ferromagnetic Steel (42 Cr Mo 4 Standard)					
Maximum Surface Speed		2500 m/s (98425 ips)					
Shaft Diameter		≥25 mm					
Environmental							
Operating Temperature Range		Sensor and Cable: -35 to 200°C (-31 to 392°F)					
		Connector: -35 to 150°C (-31 to 302°F)					
Temperature Error		<2%/100°K (API Compliant)					
Pressure Resistance to Sensor Head		10000 hpa (145 psi)					
Shock and Vibration		5g @ 60 Hz @ 25°C (77°F)					
Physical							
Material		Sleeve – Stainless Steel, Cable – PTFE					
Weight (Sensor & 1M Cable, No Armor)		~100 grams (3.53 oz)					













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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)				
Area classification depends on converter, see converter documentation for details, sensor temperature classification: $T6: Ta \le 64^{\circ}C$ $T4: Ta \le 114^{\circ}C$ $T3: Ta \le 160^{\circ}C$				

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Order Matrix	PR6423 /	Х	Х	Х	-	Х	Х	Х
Sleeve Thread	M10x1 3/8-24UNF-2A	0 1						
Armored Cable	WITH WITHOUT		1 0					
Total Sensor Length C=Cx +9mm	0(Cx=25 mm), 1(35 mm), 2(45 mm), 3(55 mm), 4(65 mm), 5(75 mm), 6(85 mm), 7(95 mm), 8(105 mm), 9(115 mm), C(125 mm), I(135 mm), K(145 mm), E(155 mm), M(165 mm), J(175 mm), L(185 mm), H(195 mm)			X				
Adaptor Plug	WITH WITHOUT					0		
Total Cable Length	0(4 m), 1(5 m), 2(6 m), 3(8 m), F(9 m), 4(10 m)						Х	
Cable End	LEMO OPEN							0

Product Accessories

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

Emerson Reliability Solutions 835 Innovation Drive Knoxville, TN 37932 USA \$\infty\$ +1 865 675 2400

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