Specifications Sheet

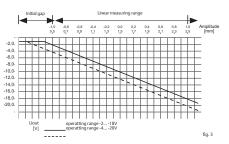
May 2019

8mm Eddy Current Sensor

Non-contact sensor designed for critical turbomachinery applications such as steam, gas and hydro turbines, compressors, gearboxes, pumps and fans to measure radial and axial shaft dynamic displacement; position, eccentricity and speed.

Performance		
Linear Measurement Range	2 mm (80 mils)	
Initial Air Gap	0.5 mm (20 mils)	
Incremental Scale Factor (ISF)	ISO: 8 V/mm (203.2 mV/mil) ± 5% @ temperature range 0 to 45°C (+32 to +113°F)	
Deviation from best fit straight line (DSL)	± 0.025 mm (± 1 mil) @ temperature range 0 to 45°C (+32 to +113°F)	
Measuring Target		
Minimum Target Size	2 mm (80 mils)	
Minimum Shaft Diameter	25 mm (0.79")	
Target Material (Ferromagnetic Steel)	42CrMo4 (AISI/SAE 4140) Standard Other (On Request)	
Environmental, General		
Protection Class	IP66, IEC 60529	
Operating Temperature Range	Sensor incl. 1m Cable: -35 to +200°C (-31 to 392°F) Cable & Connector: -35 to +150°C (-31 to 302°F)	
Differential Pressure & Sealing	10000 hpa (145 psi) between sensor tip and case.	
Material	Sensor Tip (PEEK Polyether Ether Ketone), Case (Stainless Steel) Cable (PTFE Polytetrafluoroethylene), Connector (Brass, nickel-plated)	
Weight (Sensor with 1m Cable)	approx. 100 grams (3.53 oz)	







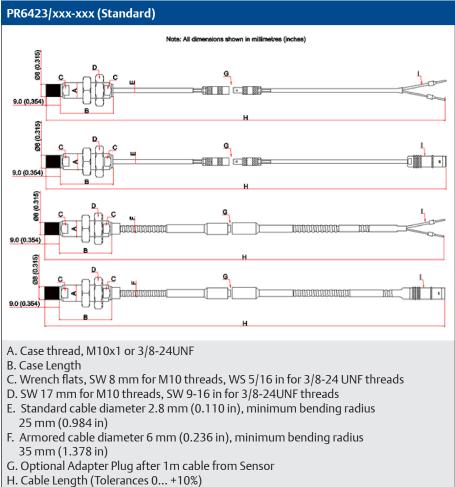


Compliance and Certifications		
CE	2014/30/EU 2014/34/EU 2014/65/EU EN61326-1 DIN EN 50581	
ATEX	EN 60079-0 EN 60079-11	
IEC-Ex	IEC 60079-0 IEC 60079-11 IEC 60079-26	
CSA	CAN/CSA-C22.2 NO. 0-M91 CAN/CSA-C22.2 NO. 157-92 CAN/CSA-C22.2 NO. 213-M1987 CAN/CSA-E60079-15-02 (R2006) CAN/CSA-C22.2 NO. 25-1966 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	

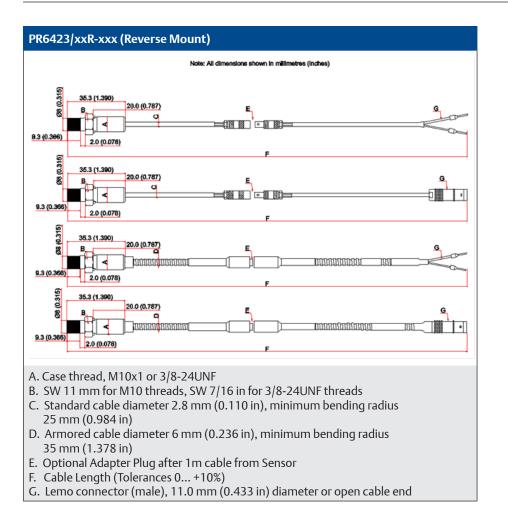
Hazardous Area Approvals

Intrinsic Safety (ia)	
ATEX / IEC-Ex / CSA	Area classification depends on converter, see converter documentation for details. Sensor temperature classification: T6: Ta \leq 64°C T4: Ta \leq 114°C T3: Ta \leq 160°C
Non-sparking (nA)	
ATEX / IEC-Ex / CSA	Area classification depends on converter, see converter documentation for details. Sensor temperature classification: T6: Ta \leq 64°C T4: Ta \leq 114°C T3: Ta \leq 160°C

Dimensions



I. Lemo connector (male), 11.0 mm (0.433 in) diameter or open cable end



Ordering Information

Tip Diameter	Case Threads	Armored Cable	Model No.
0	M10x1 3/8"-24 UNF	No	PR6423/00
		Yes	PR6423/01
			PR6423/03*
8mm		No	PR6423/10
		Yes	PR6423/11
			PR6423/13*

* Armored cable option for Reverse Mount, if Adapter Plug is chosen.

Model No.	Case Thread X	Case Thread X	Adapter Plug X	Cable Length X	Cable End X
PR6423/00 PR6423/01 PR6423/10 PR6423/11	 0 25mm 1 35mm 2 45mm 3 55mm 4 65mm 5 75mm 6 85mm 7 95mm 8 105mm 9 115mm C 125mm I 135mm K 145mm E 155mm M 165mm J 175mm L 185mm H 195mm R Reverse Mount 	1 35mm 2 45mm 3 55mm 4 65mm 5 75mm 6 85mm 7 95mm 8 105mm 9 115mm 0 2 125mm 1 135mm K 145mm E 155mm M 165mm J 175mm L 185mm H 195mm	0 With 1 Without	 0 4.0m 1 5.0m 2 6.0m 3 8.0m F 9.0m 4 10.0m 	0 Lemo* 1 Open

* Not available, if Reverse Mount without Adapter Plug is chosen.

Example: PR6423/000-000

ECS 8mm, M10X1, NO ARMOR, 25MM SLEEVE, 1+3M CABLE, LEMO

Product Accessories

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

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