



APEX SERIES

Eddy Current
Displacement
Measurement Probes



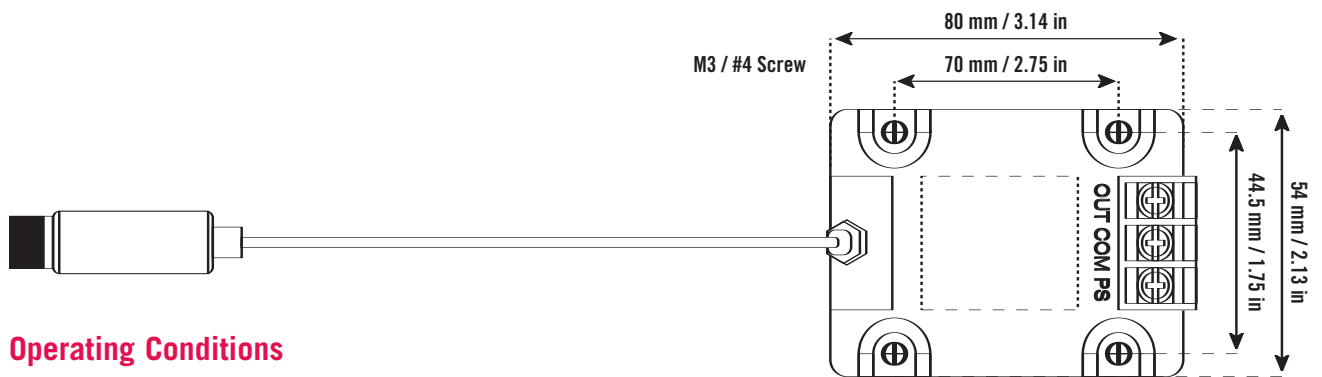
Features & Benefits

- Fast Set-up/Easy Operation
- Compact System Package
- Ideal for Process Monitoring
- Frequency Response to 10 kHz
- Custom Probe Ranges and Sizes
- Wide Range of Input/Output Voltage Configurations
- API 670-Compliant Design
- Sensors Operate up to 200°C
- Compatible with MTII's SJ-1000 Digital Monitoring System

The MTI Instruments Apex Series Eddy Current probes offer superior performance at an economical price. Flexible in design, these systems allow custom configurations to match your process needs. With linear measurement ranges from 0.5 mm to 50 mm and frequency response of up to 10 kHz, they are ideal for displacement and vibration applications that require high-speed, rugged sensors. Eddy Current sensors have unique advantages over other non-contact measurement technologies in that they are unaffected by water, oil or other contaminants in the measurement area.



Probe + Extension Cable + Pre-Amplifier



Operating Conditions

Input Voltage:	+24 Vdc*	
Output Range:	0 to +10 Vdc*	
Frequency Response:	10 kHz	
Load:	10 k Ω	
DC Output Noise:	< 5 mV	
Temperature Range:	Probe:	-20°C to +200°C
	Ext. Cable:	-30°C to +120°C
	Pre-Amp:	-30°C to +100°C

*Contact MTI Instruments for other inputs and ranges

Sensor Specifications for Steel Targets

Characterized on 4140 Stainless Steel

Standard Threaded Sensors

Model Number		205	208	211	214	125	150
Probe Diameter	mm	5.0	8.0	11.0	14.0	25.0	50.0
	(in.)	(0.196)	(0.315)	(0.433)	(0.550)	(1.0)	(2.00)
Probe Range	mm	1.0	2.0	4.0	5.0	12.5	25.0
	(in.)	(0.040)	(0.080)	(0.160)	(0.120)	(0.500)	(1.000)
Probe Standoff	mm	0.25	0.40	1.0	1.10	1.25	2.5
	(in.)	(0.010)	(0.016)	(0.040)	(0.043)	(0.050)	(0.100)
Length	mm	20.0	30.0	30.0	30.0	30.0	30.0
	(in.)	(0.80)	(1.20)	(1.20)	(1.20)	(1.20)	(1.20)
Thread	Metric	M8 x 1.0	M10 x 1.0	M14 x 1.5	M16 x 1.5	M12 x 1.25	M14 x 1.5
	(Eng.)	(1/4-28)	(3/8-24)	(1/2-20)	(5/8-18)	(1 1/4-12)	(1 1/2-12)
Cable Length**	m	0.5	0.5	0.5	0.5	0.5	0.5
	(in.)	(19.7)	(19.7)	(19.7)	(19.7)	(19.7)	(19.7)
Linearity (\pm %FS)	(\pm 1.0%)	(\pm 1.0%)	(\pm 1.0%)	(\pm 1.0%)	(\pm 1.2%)	(\pm 1.5%)	(\pm 2.0%)

**Extended cables available

Contact MTI Instruments for all probe configurations

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