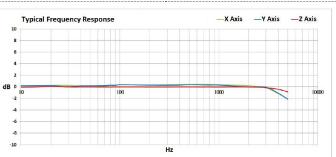
Digital triaxial MEMS accelerometer and temperature sensor

Wilcoxon SENSING TECHNOLOGIES

883M

SPECIFICATIONS

DYNAMIC	
Acceleration range	±16 g, peak
Resolution	0.488 mg
Frequency response, ± 3 dB	2 Hz - 5 kHz
Resonance frequency	6.9 kHz
CALCULATED VIBRATION METR	ICS (X, Y, AND Z AXES)
Acceleration, RMS	2 Hz - 1 kHz; 10 Hz - 5 kHz
Acceleration, peak	2 Hz - 1 kHz; 10 Hz - 5 kHz
Velocity, RMS	10 Hz - 1 kHz; 10 Hz - 5 kHz
Velocity, peak	10 Hz - 1 kHz; 10 Hz - 5 kHz
Displacement, RMS	2 Hz - 1 kHz; 10 Hz - 1 kHz
Displacement, peak	2 Hz - 1 kHz; 10 Hz - 1 kHz
OTHER OUTPUTS	
- emperature	–20° to +70° C
rue peak	Fs @ 13.333 kHz
Spectrum	0 Hz - 5 kHz, 6145 lines
Γime wave	13,333 samples, 1 second
Other features	crest factor standard deviation
COMMUNICATION	
nterface	RS485
Protocol	Modbus RTU
Recommended baud rate	9,600 or 115,200 bps





Key features

- Modbus RTU communication protocol
- Digitally outputs vibration spectrum, time waveforms, and vibration characteristic values
- Frequency bands align with ISO 10816-3 and ISO 20816-3 guidelines

Note: Due to continuous process improvement, specifications are subject to change without notice. This document is cleared for public release.

Digital triaxial MEMS accelerometer

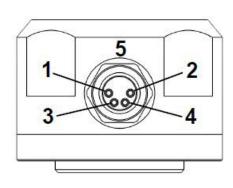


883M

SPECIFICATIONS

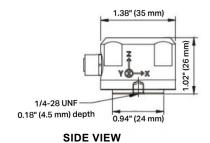
ELECTRICAL		
Power		6 - 24 VDC
LED Indicator		1 (RGB)
ENVIRONMENTAL AND N	MECHANICA	\L
Dimensions		35mm dia. x 26 mm h
Weight		75 grams
Sealing		IP67
Case material:	upper lower	A6061 aluminum 303 stainless steel
Connector		4-socket M8
Mating connector		4-pin M8
Recommended cabling		4-conductor, PVC jacket, shielded
Mounting		adhesive mount via sensor flat base screw mount adapter¹ (optional) magnet mount adapter¹ (optional)
Operating temperature		–20° to +70° C
Storage temperature		–20° to +80° C
		5 - 95% RH

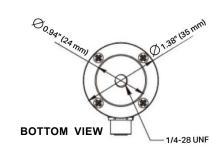
Notes: ¹ Mounting adapter allows the installer to mount the sensor in a specific orientation, as required for triaxial sensors, and provides proper cable exit placement.



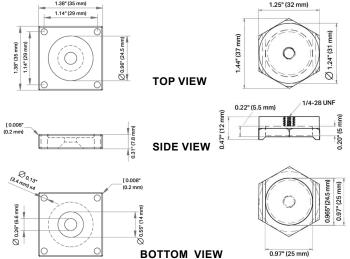
Connections		
Function	Connector pin	
power	1	
ground	2	
signal +	3	
signal -	4	
shield	5 (housing)	







SCREW MOUNT ADAPTER MAGNET MOUNT ADAPTER



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