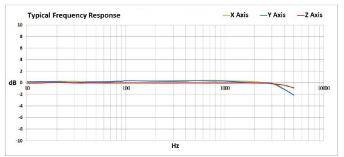
Digital triaxial MEMS accelerometer and temperature sensor

Wilcoxon SENSING TECHNOLOGIES

883M

SPECIFICATIONS

-
±16 g, peak
0.488 mg
2 Hz - 5 kHz
6.9 kHz
S (X, Y, AND Z AXES)
2 Hz - 1 kHz; 10 Hz - 5 kHz
2 Hz - 1 kHz; 10 Hz - 5 kHz
10 Hz - 1 kHz; 10 Hz - 5 kHz
10 Hz - 1 kHz; 10 Hz - 5 kHz
2 Hz - 1 kHz; 10 Hz - 1 kHz
2 Hz - 1 kHz; 10 Hz - 1 kHz
–20° to +70° C
Fs @ 13.333 kHz
0 Hz - 5 kHz, 6145 lines
13,333 samples, 1 second
crest factor standard deviation
RS485
Modbus RTU
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

Kit options

- · 883M: sensor and stud mount
- 883M-SMA: sensor, stud mount, screw mount adapter, and RM8-ST-J94-50 50' mating cable
- 883M-MMA: sensor, stud mount, magnet mount adapter, and RM8-ST-J94-50 50' mating cable
- 883M-FMA: sensor and stud mount, screw mount adapter, magnet mount adapter, and RM8-ST-J94-50 50' mating cable

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

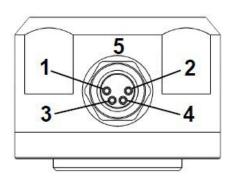
ELECTRICAL		
Power		6 - 24 VDC
LED Indicator		1 (RGB)
ENVIRONMENTAL AND N	/IECHANICA	L
Dimensions		35mm dia. x 26 mm h
Weight		75 grams
Sealing		IP67
Case material:	upper lower	A6061 aluminum 303 stainless steel
Connector		4-socket M8
Mating connector		4-pin M8
Recommended cabling		4-conductor, PVC jacket, 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
Operating humidity		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.

TOP VIEW

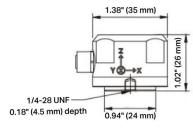
SIDE VIEW

BOTTOM VIEW

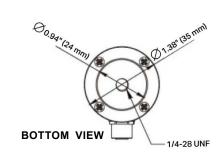


Connections		
Function	Connector pin	
power	1	
ground	2	
signal +	3	
signal -	4	
shield	5 (housing)	





SIDE VIEW



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

MAGNET MOUNT ADAPTER

1.44" (37 mm)

0.22" (5.5 mm)

Ø 1.24" (31 mm)

SCREW MOUNT ADAPTER

1.14" (29 mm)

1.38" (35 mm) 1.14" (29 mm)

0.97" (25 mm)

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