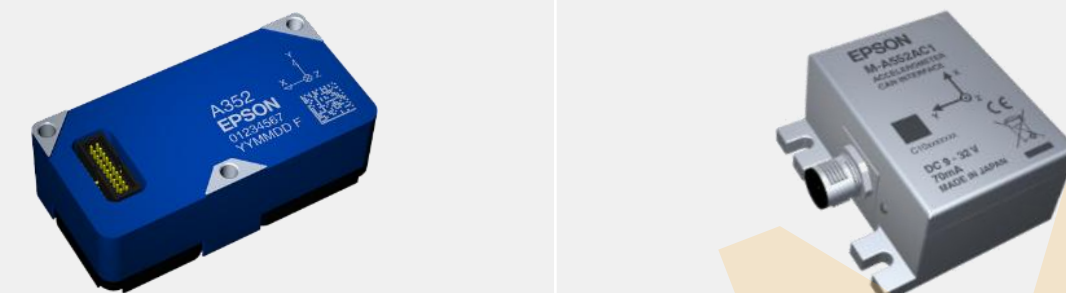


EPSON Sensor Lineup



EPSON

Accelerometer/Vibration Sensor

Spec／Product Name		M-A342	M-A542	M-A352	M-A552	M-A370
Feature		A quartz vibration sensor/accelerometer with a wide detection range, high resolution, high accuracy and excellent three-axis sync				
		Compliance with ISO10816		Low noise ・ Detecting of low frequency		Super low noise Detecting of low frequency
Axis		3 axis (X/Y/Z)				
Physical quantity		Velocity/Displacement (selectable)		Acceleration		
Detection Range		Velocity: ±100 mm/s Displacement : ±200 m		±15 G		±10 G
Resolution		Velocity : 2.38*10 ⁻⁴ mm/s/LSB Displacement : 2.38*10 ⁻⁴ mm/LSB		0.06 μG/LSB		0.06 μG/LSB
Noise Density (25 °C, Avg.)		Velocity : 1. 4*10 ⁻⁴ mm/s/√Hz (Avg. 2.0 0~1,0 0 0 Hz) Displacement : 0.7*10 ⁻⁵ mm/√Hz (Avg. 20~100 Hz)		0.2 μG/√Hz (Avg. 0.5~6 Hz)		0.02 μG/√Hz (Avg. 1~10 Hz)
Bandwidth		Velocity : 10~1,000 Hz Displacement : 1~100 Hz		DC~460 Hz		DC~210 Hz
Bias characteristics over temp (-30~+85 °C, Max)		N/A ※Due to the removal of the DC component		±2.0 mG		±0.5 mG
Output rate		Velocity : 3,000 sps (Fixed) Displacement : 300 sps (Fixed)		50~1,000 s p s (Selectable)		50~1,000 sps (Selectable)
External trigger jitter		N/A		0~5 μs		0~5 μs
1 PPS trigger jitter		N/A		N/A		0~5 μs
Appearance	Product Image					
	Size	48x24x16 mm	65x60x30 mm	48x24x16 mm	65x60x30 mm	48x24x16 mm
	Weight	25 g	128 g	25 g	128 g	30 g
	Power supply current	2.9 mA @ 3.3 V	51 mA @ 12 V	13.2 mA @ 3.3 V	35 mA @ 12 V : M-A552AC10 49 mA @ 12 V : M-A552AR10	36.3 mA @ 3.3 V
	Interface	UART/SPI(Selectable)	RS422	UART/SPI(Selectable)	CANopen : M-A552AC10 RS-422 : M-A552AR10	UART/SPI(Selectable)

IMU

Spec／Product name		M-G370T	M-G370G	M-G366	M-G330	M-G355	M-G570	M-G552
Feature		Compact, lightweight and high-precision industrial grade IMU				Compliance IEC 6 1 5 0 8 SIL1	IP67-rated dustproof and waterproof protection	
Gyro								
Detection range		± 200 ° /s	± 450 ° /s	± 450 ° /s	± 400 ° /s	± 450 ° /s	± 475 ° /s	± 450 ° /s
ARW		0.03 ° /√h	0.06 ° /√h	0.08 ° /√h	0.10 ° /√h	0.08 ° /√h	0.04 ° /√h	0.06 ° /√h
BIS		0.8 ° /h	0.8 ° /h	1.2 ° /h	3 ° /h	1.2 ° /h	0.5 ° /h	0.8 ° /h
Initial Error		360 ° /h	360 ° /h	360 ° /h	720 ° /h	360 ° /h	360 ° /h	360 ° /h
Bandwidth		189 Hz	189 Hz	472 Hz	500 Hz	189 Hz	189 Hz	189 Hz
Accl								
Detection range		± 8,16 G (selectable)	± 8,16 G (selectable)	± 8,16 G (selectable)	± 8,16 G (selectable)	± 8,16 G (selectable)	± 15 G	± 10 G
VRW		0.020 m/s/√h	0.020 m/s/√h	0.020 m/s/√h	0.030 m/s/√h	0.020 m/s/√h	0.012 m/s/√h	0.033 m/s/√h
Initial Error		2 mG	2 mG	3 mG	4 mG	3 mG	2 mG	3 mG
Bandwidth		333 Hz	333 Hz	333 Hz	333 Hz	1 4 8 Hz	333 Hz	167 Hz
Appearance	Product Image							
	Size	24×24×10 mm	24×24×10 mm	24×24×10 mm	24×24×10 mm	24×24×10 mm	65×60×30 mm	65×60×30 mm
	Weight	10 g	10 g	10 g	10 g	10 g	150 g	115 g
	Power supply current	16 mA @ 3.3 V	16 mA @ 3.3 V	16 mA @ 3.3 V	16 mA @ 3.3 V	16 mA @ 3.3 V	60 mA @ 12 V	32 mA @ 12 V
	Interface	SPI/UART	SPI/UART	SPI/UART	SPI/UART	SPI/UART	SPI/UART	RS422

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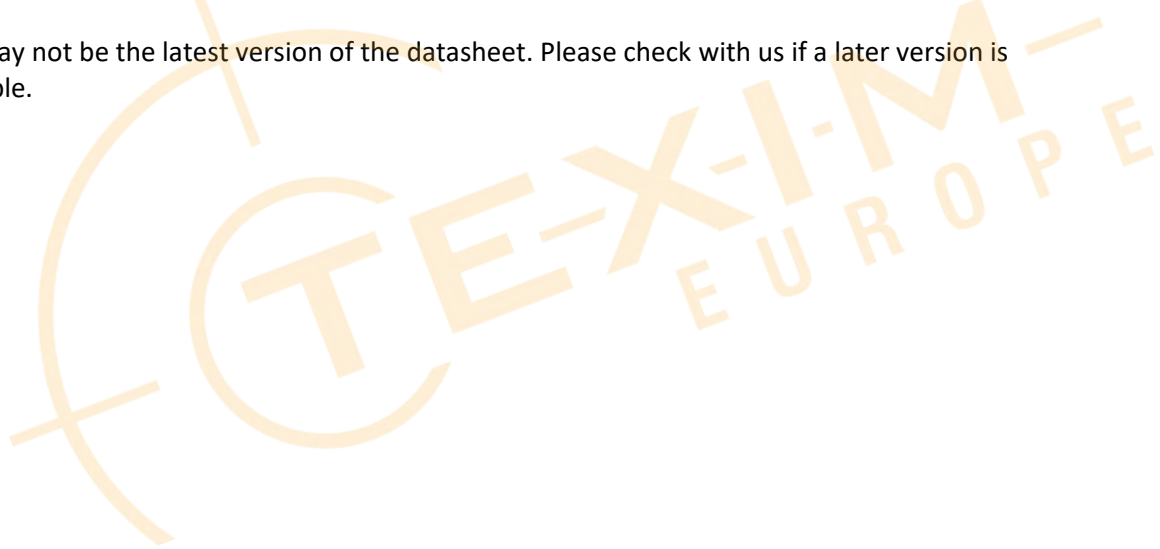
It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

This may not be the latest version of the datasheet. Please check with us if a later version is available.





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