

Angular Velocity and Acceleration Sensors

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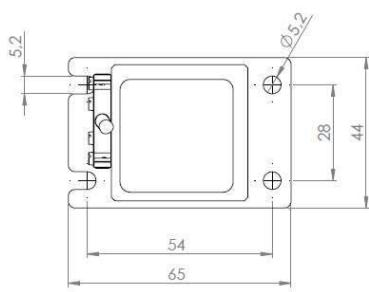
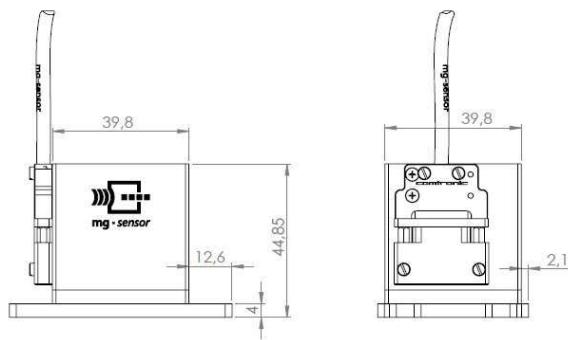
*additional versions available on request!

R1B0A10A

Angular Velocity, 1-axial			
Measuring range	°/s	±1500	Standard
Bandwidth	Hz	> 50	±3dB
Sensitivity ¹⁾	mV/(°/s)	1,34	
Output signal ^{1), 2)}	V	2,01	
Zero signal ¹⁾	mV	≤ 2,5	
Amplitude non-linearity ³⁾	%	≤ 1,0	
Sensitivity regarding linear acceleration	(°/s)/g	0,002	
Transversal sensitivity	%	≤ 5,0	
Noise	°/s rms	< 0,5	
Current consumption	mA	45	±10%
Supply voltage	V	10	±2,5%
Insulation resistance	MΩ	> 100	
Temperature range	°C	-40..+75	
Weight (approximate)	g	100	

All values measured at 10 V sensor supply voltage and at 23 °C.

¹⁾Typical value, ²⁾At nominal load, ³⁾Relative nominal range

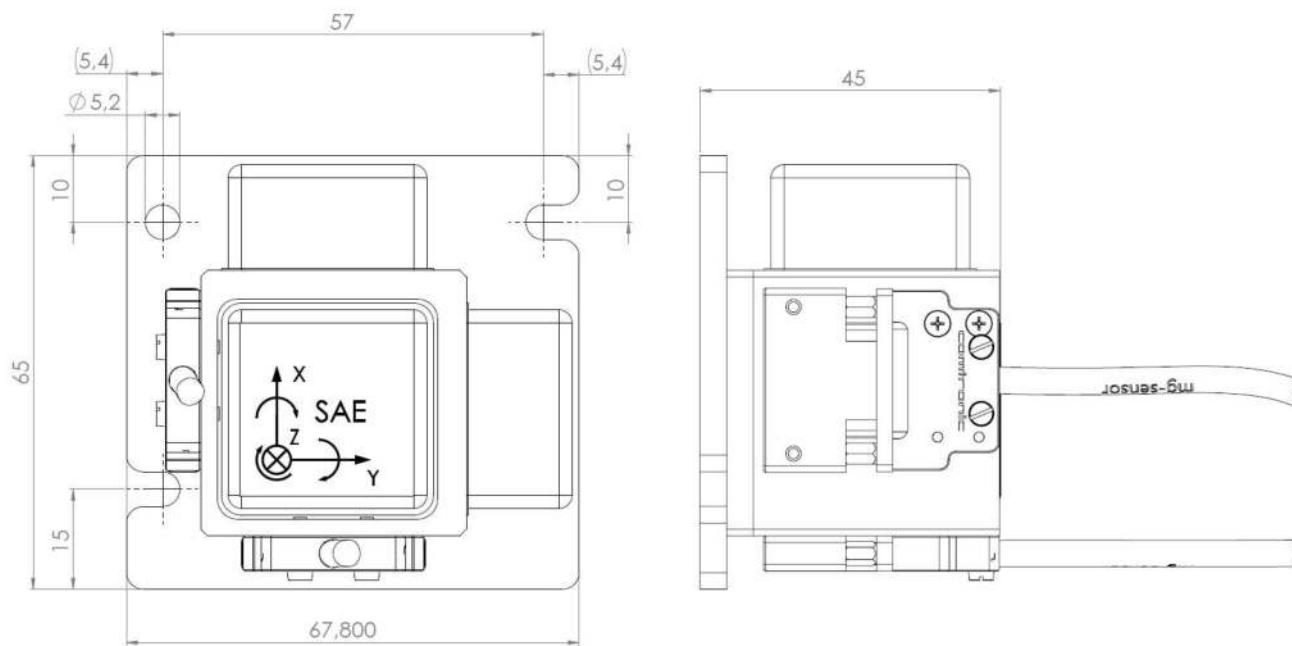


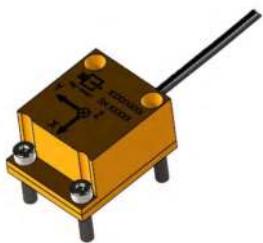
R3B0A10A

Angular Velocity, 3-axial			
Measuring range	°/s	±1500	Standard
Bandwidth	Hz	> 50	±3dB
Sensitivity ¹⁾	mV/(°/s)	1,34	
Output signal ^{1), 2)}	V	2,01	
Zero signal ¹⁾	mV	≤ 2,5	
Amplitude non-linearity ³⁾	%	≤ 1,0	
Sensitivity regarding linear acceleration	(°/s)/g	0,002	
Transversal sensitivity	%	≤ 5,0	
Noise	°/s rms	< 0,5	
Current consumption	mA	45	±10%
Supply voltage	V	10	±2,5%
Insulation resistance	MΩ	> 100	
Temperature range	°C	-40..+70	
Weight (approximate)	g	250	

All values measured at 10 V sensor supply voltage and at 23 °C.

¹⁾Typical value, ²⁾At nominal load, ³⁾Relative nominal range



R6B0A60A

	Description	Angular Velocity, 6-axial		
	Measuring range	°/s	±8000	Standard
	Bandwidth	Hz	0-2000	From DC
	Sensitivity ¹⁾	mV/(°/s)	0,25	
	Output signal ^{1), 2)}	V	±2,0	
	Zero signal ¹⁾	mV	±200	
	Amplitude non-linearity ³⁾	%	≤ 1,0	
	Channel crosstalk	%	± 5,0	
	Current consumption	mA	6,0	Per axis
	Supply voltage	V	4,9-14	Analog version
	Description	Acceleration sensor, 6-axial		
	Measuring range	g	±2000	Standard
	Bandwidth	Hz	0-10000	From DC
	Sensitivity ¹⁾	mV/V/g	0,02	
	Output signal ^{1), 2)}	mV/V	±40	
	Zero signal ¹⁾	mV/V	±0,2	
	Amplitude non-linearity ³⁾	%	≤ 1,0	
	Channel crosstalk	%	±3,0	
	Current consumption	mA	2,5	Per Axis
	Supply voltage	V	2-5 (10)	Analog version
	Description	General Data		
	Insulation resistance	MΩ	> 100	
	Temperature range	°C	-40...+70	
	Weight (approximate)	g	-	

All values measured at 5 V sensor supply voltage and at 23 °C.

¹⁾Typical value, ²⁾At nominal load, ³⁾Relative nominal range

R6B0B60A

	Description	Angular Velocity, 6-axial		
	Measuring range	°/s	±8000	Standard
	Bandwidth	Hz	0-2000	From DC
	Sensitivity ¹⁾	mV/(°/s)	0,25	
	Output signal ^{1), 2)}	V	±2,0	
	Zero signal ¹⁾	mV	±200	
	Amplitude non-linearity ³⁾	%	≤ 1,0	
	Channel crosstalk	%	±5,0	
	Current consumption	mA	6,0	Per axis
	Supply voltage	V	4,9-14	Analog version
	Description	Acceleration Sensor, 6-axial		
	Measuring range	g	±2000	Standard
	Bandwidth	Hz	0-10000	From DC
	Sensitivity ¹⁾	mV/V/g	0,02	
	Output signal ^{1), 2)}	mV/V	±40	
	Zero signal ¹⁾	mV/V	±0,2	
	Amplitude non-linearity ³⁾	%	≤ 1,0	
	Channel crosstalk	%	±3,0	
	Current consumption	mA	2,5	Per axis
	Supply voltage	V	2-5 (10)	Analog version
	Description	General Data		
	Insulation resistance	MΩ	> 100	
	Temperature range	°C	-40...+70	
	Weight (approximate)	g	-	

All values measured at 5 V sensor supply voltage and at 23 °C.

¹⁾Typical value, ²⁾At nominal load, ³⁾Relative nominal range

R6B0C60A

Description	Angular Velocity, 6-axial		
	Measuring range	°/s	±8000
	Bandwidth	Hz	0-2000
	Sensitivity ¹⁾	mV/(°/s)	0,25
	Output signal ^{1), 2)}	V	±2,0
	Zero signal ¹⁾	mV	±200
	Amplitude non-linearity ³⁾	%	≤ 1,0
	Channel crosstalk	%	±5,0
	Current consumption	mA	6,0
	Supply voltage	V	4,9-14
Description	Acceleration Sensor, 6-axial		
	Measuring range	g	±2000
	Bandwidth	Hz	0-10000
	Sensitivity ¹⁾	mV/V/g	0,02
	Output signal ^{1), 2)}	mV/V	±40
	Zero signal ¹⁾	mV/V	±0,2
	Amplitude non-linearity ³⁾	%	≤ 1,0
	Channel crosstalk	%	±3,0
	Current consumption	mA	2,5
	Supply voltage	V	2-5 (10)
Description	General Data		
	Insulation resistance	MΩ	> 100
	Temperature range	°C	-40...+70
	Weight (approximate)	g	-

All values measured at 5 V sensor supply voltage and at 23 °C.

¹⁾Typical value, ²⁾At nominal load, ³⁾Relative nominal range