

SA-ACxxHQ1-000

Static accelerometer (1 axis) high quality



Key Features

- > Sensor/amplifier combination to measure axial acceleration
- > No temperature drift influence
- > No vibration influence to the signal
- High resistance to vibration shock
- > Different measuring ranges between $\pm 1G$ to $\pm 50G$ available
- Sensor / amplifier combination will be delivered with calibration sheet

Options:

> Connector and cable length can be modified on customer request

Technical specifications

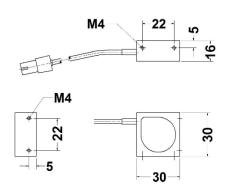
1 Axis acceleration Range Frequency response Error of linearity	G Hz FS	±1/ ±3/ ±5/ ±10/ ±50 25, 100, 200, 400, 550 <1%
Electrical characteristics Supply voltage Output voltage Current consumption @12 V	V V mA	12 0 to 5 4
Environmental data Protection class Ambient operating range Humidity	IP °C %	66 -25 to +85 5 to 95

Mechanical characteristics		
Housing material		Aluminum
Dimensions	mm	30x30x16
Weight sensor	g	10
Weight cable	g	40
Connector	Bin	der 719 5PM
Cable	Ra	aychem EPD
Length	mm	1200
Wire cross section		4xAWG26
Vibration resistance		
Shock resistance acc element	G	10000
During time period of	ms	10
Vibration tested at	G	12
Measured with	Hz	1000
Ordering information		
Art. No. SA-AC05HQ1-000	± 5G	
Art. No. SA-AC10HQ1-000	± 10G	
Art. No. SA-AC50HQ1-000	± 50G	

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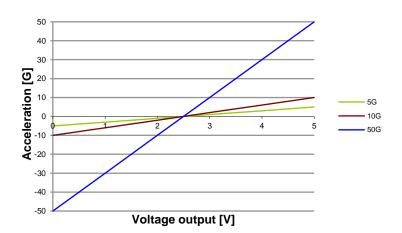


Dimensions



Calibration

SA-A	CxxHQ1-000		1	Multiplicate	or				Offset
12 Bit A/D	Acceleration [G]	=	2	2 * <mark>xx</mark> / 409	95	*	Digits	-	XX
16 Bit A/D	Acceleration [G]	=	2	* xx / 655	35	*	Digits	-	XX
Voltage	Acceleration [G]	=	2	4	20	*	Volt	-	XX
			SA-AC05HQ1	SA-AC10HQ1	SA-AC50HQ1				



Connector layout

Binder 719, 5PM				
Pin	Name	Description	Color	
1	AGND	Analog ground	black	
2	n.c.	Not connected	-	
3	+12V	Power supply	red	
4	n.c.	Not connected	-	
5	Signal	Analog signal	white	

Connector type



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