Quadro-G

sensors

QG30-KAX-3.0-AV-K

Acceleration sensor
1 axis

Output
0,5 - 4,5 V

Operating voltage
10 - 30 Vdc

Measuring range
X axis: ± 3.0 G

CE

Application	1-axis acceleration monitoring	
Housing	Quadro30: PBTP black	
Dimensions	30 x 30 x 15 mm	
Mounting	2 x stainless M3x16 screws	
Protection	IP67	
Humidity	0 - 100%	
Weight	ca 15 gram (excl. cable)	
Supply voltage	10 - 30 Vdc	
Polarity protection	Yes	
Current consumption	≤ 30 mA	
Operating temperature	-25…+85ºC	
Storage temperature	-25…+85ºC	
Measuring range	X-axis: ± 3.0 g (1 g = 9,81 m/s²)	
Frequency response (-3 dB)	0 - 115 Hz (± 55 Hz)	
Output signal	0,5 - 4,5 V	
Output load	Rload ≥ 10 kOhm, Cload ≤ 1 nF	
Short circuit protection	Yes (max 10 s)	
Response time	< 10 ms	
Accuracy		
Resolution	11-bit	
Non linearity	± 60 mg	
Absolute accuracy	± 5 %	
Max mechanical shock	20.000 g	
Status LED	Optional	
Connector	Optional	
Cable	2 m PVC, black Ø 4,6 mm, wires: 3x0,34 mm²	
Wire coding	Brown	+ Supply voltage
	Black	Analog output
	Blue	Gnd

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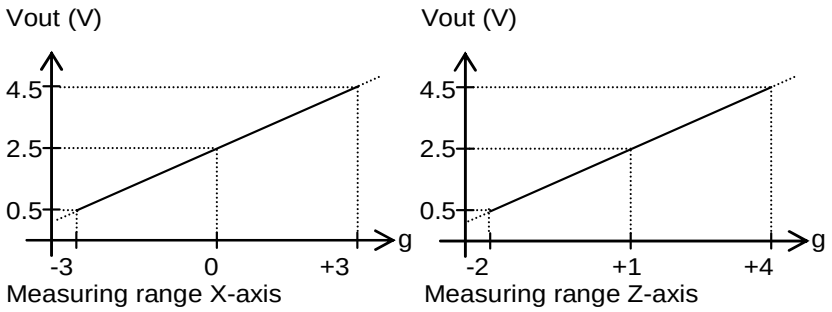
Mounted vertical:
X-axis: cable is pointing to the earth.
Z-axis: cable is pointing to the right.

Note: the vertical plane should be within 3° parallel to the gravity direction.

Transfer characteristic



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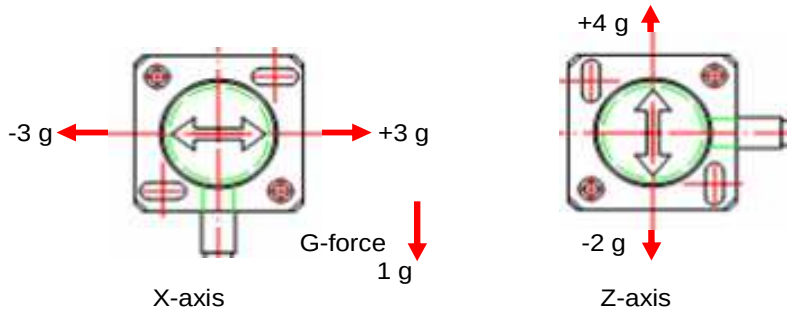
X-axis:
When mounted vertical with the cable pointing to the earth, the range is:
± 3 g.

Z-axis:
When mounted vertical with the cable pointing to the right, the offset of the G-force shifts the range to:
-2 to +4 g.

Measurement orientation



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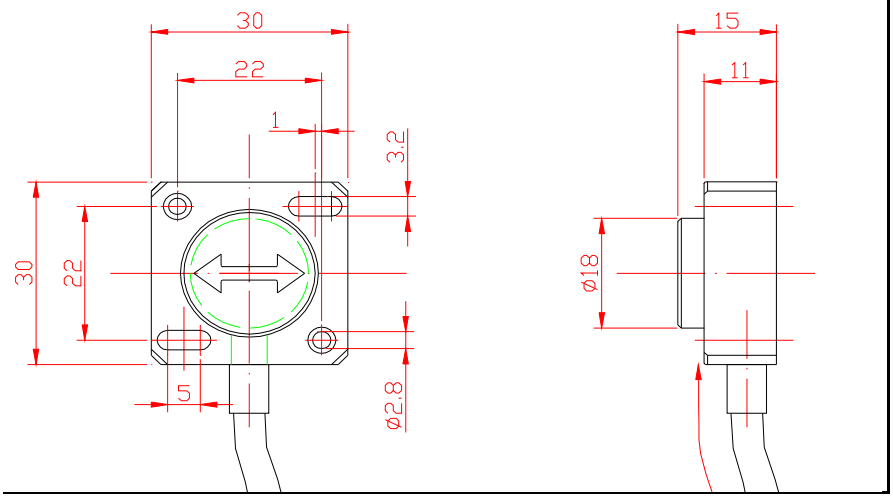
Mechanical dimensions



Product conformity

CE conformity

Test standards and regulations

The model QG30 complies with the requirements of the standards EN50081-1 and EN50082-1.