Quadro-G

sensors

QG40-KAXY-12.0-AI-K
Acceleration sensor 2 axis: X and Y Output 4 - 4 mA Supply voltage 10 - 30 Vdc Measuring range ±12 G

Application	2-axis acceleration monitoring
Housing	Quadro40, black PBTP
Dimensions	40 x 40 x 25 mm
Mounting	2x stainless M3 x 25 mm screws
Protection	IP67
Humidity	0 - 100%
Weight	ca 45 gram (excl cable)
Supply voltage	10 - 30 Vdc
Polarity protection	Yes
Current consumption	≤ 60 mA
Operating temperature	-25…+85 ºC
Storage temperature	-25…+85 ºC
Measuring range	X and Y axis: ± 12 G
Output signals	4 - 20 mA
Short circuit protection	Yes (max 10 s)
Output load resistor	Rload ≤ 50*Vop - 125 (Ω) (Eg: Vsupply = 24V: Rload ≤ 1075 Ω)
Frequency response	0 - 400 Hz (± 150 Hz)
Response time	< 10 ms
Accuracy	
Accuracy (excl. cross axis)	3%
Cross axis sensitivity	4%
Resolution	11 bit
Max mechanical shock	20.000 g
Status LED	Optional
Cable	Standard: 2 m, black, PVC, 4x0,25mm²
Cable wires	Brown : Vcc Blue : Gnd Black : X axis output White : Y axis output
Connector	Optional

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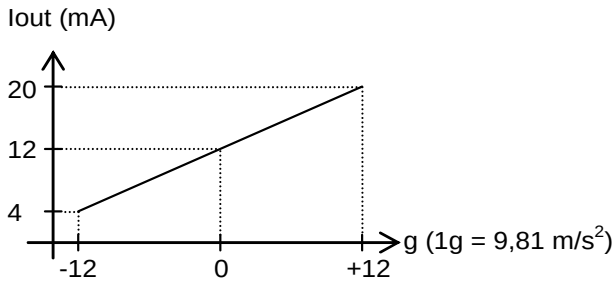
Iout = 12 + g*0,67 [mA]

Iout has a linear relation
to the g-force (acceleration).

Transfer characteristic for X and Y output



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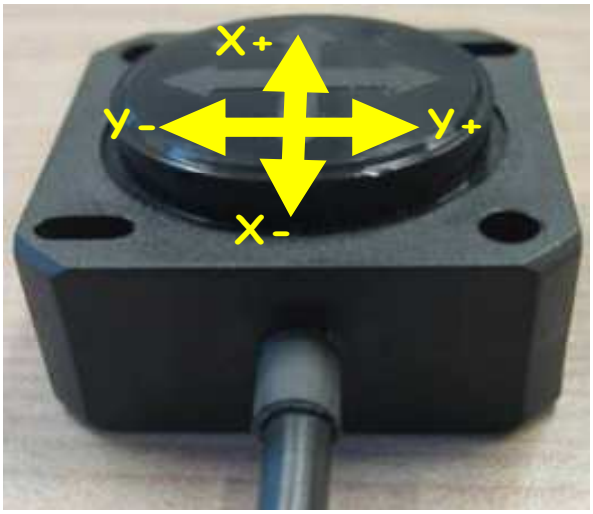
The zero positon (X = 12 mA and
Y = 12 mA) is when the sensor is
mounted horizontally and no
acceleration is applied.

Measurement orientation



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Mechanical dimensions