QG series



QG40N-KAXYh-1,5-AV-CM-UL

Acceleration sensor

2 axis horizontal mounting

Programmable device Output: 0,5 - 4,5 V

Measuring range programmable between 0,1 g and 16 g

Measuring range Factory defaults: ± 1,5 g

Housing
Dimensions (indicative)
Mounting
Ingress Protection (IEC 60529)
Relative humidity
Weight
Supply voltage
Polarity protection
Current consumption
Operating temperature
Storage temperature
Measuring range
Centering function
Frequency response (-3dB)
Accuracy (overall @20°C)
Offset error
Non linearity
Sensitivity error
Resolution
Temperature coefficient
Max mechanical shock
Output
Output load
Short circuit protection
Output refresh rate

Programming options

QG40N-series

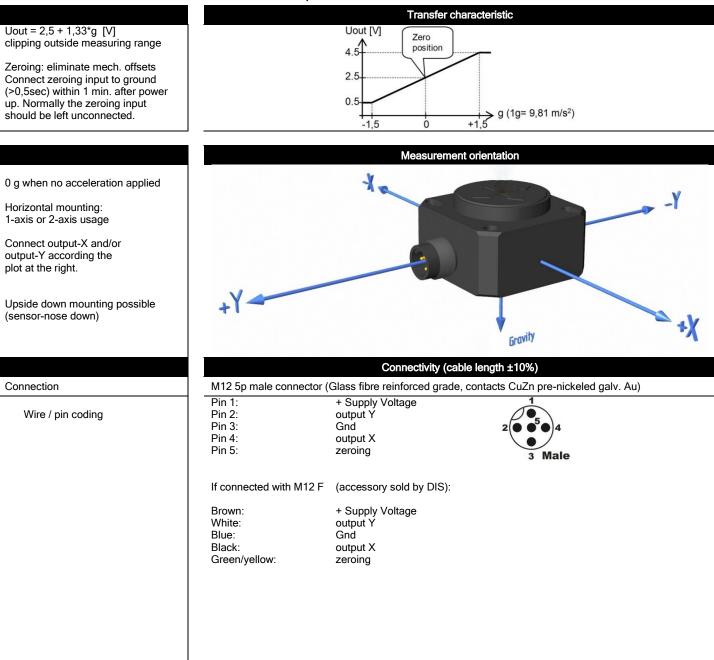


	General specifications 12316, v20230725
	Plastic injection molded housing (Arnite T06 202 PBT black)
	40x40x25 mm
Included: 2x M	A3x25 mm zinc plated steel pozidrive pan head screws, self-tapping (PZ DIN 7500CZ) Mounting on flat surface only. Screw with care
	IP67, IP69K (with IP69K mating connector)
	0 - 95% (non condensing, housing fully potted)
	approx. 45 gram
	6 - 30 V dc
	Yes
	≤ 15 mA
	-40 +80 °C
	-40 +85 °C
	Factory defaults: ± 1,5 g
	Yes (2,5 V = 0 G), range $\pm 5^{\circ}$
	0 - 50 Hz
	overall 0,06 g typ.
	\pm 30 mg typ. (\pm 60 mg 2 σ) after zero adjustment
	±0,04 g typ.
	± 1% typ.
	2 mg
	± 1 mg/K typ.
	10.000g
	0,5 - 4,5 V
	Rload ≥20kΩ, Cload ≤20 nF
	Yes (max 10 s)
	3 ms
	by optional QG40N-configurator (measuring range, filtering)



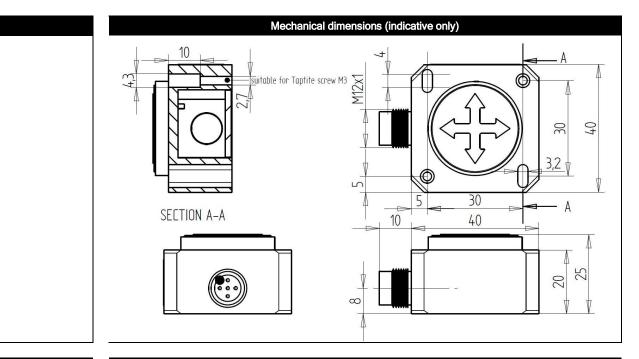


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Intended use, UL, Remarks

QG series sensors are intended to measure inclination/acceleration/tilt. Flawless function (acc. spec.) is ensured only when used within specifications. This device is not a safety component acc. to EU Machine Directive (ISO13849). For full redundancy two devices can be used. Modifications or non-approved use will result in loss of warranty and void any claims against the manufacturer.

UL & c-UL listed product (File number E312057, UL508 standards UL60947-5-2 & CSA-C22,2 No. 14) Product Identity / Category Code Number (CCN): Industrial Control Equipment / NRKH & NRKH7 Enclosure rating: type 1, Ambient temperature: max 80 °C (see also datasheet, lowest value applies) Electrical ratings: Intended to be used with a Class 2 power source in accordance with UL1310, max. input Voltage 32V dc (see also datasheet, lowest value applies), max. current 200mA Accessory Cable Assembly: Any UL-listed (CYJV/7) mating connector with mechanical locking, wire thickness of at least 30 AWG (0,05 mm²), recommended ≤23 AWG (≥0,25 mm²)

As this device is accelerometer-based the sensor is inherent sensitive for accelerations/vibrations. Application specific testing must be carried out to check whether this sensor will fulfil your requirements.