QG series



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

Acceleration sensor

2 axis horizontal mounting

Programmable device Output: 4 - 20 mA

Measuring range programmable between 0,1 g and 16 g

> Measuring range Factory defaults: ± 1,5 g

Housing

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

Max mechanical shock

Output refresh rate Programming options

Output

4.20

QG40N-series



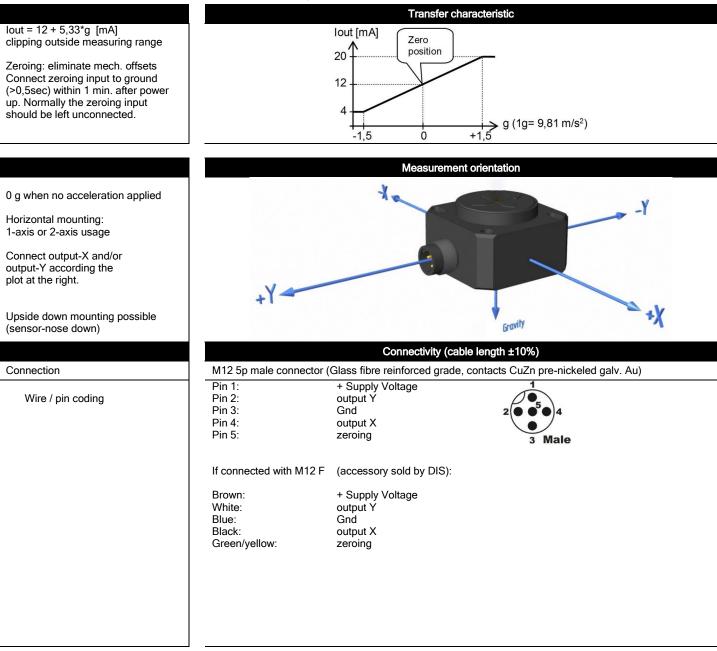
	General specifications 12315, v20230725
ousing	Plastic injection molded housing (Arnite T06 202 PBT black)
Dimensions (indicative)	40x40x25 mm
Mounting	Included: 2x M3x25 mm zinc plated steel pozidrive pan head screws, self-tapping (PZ DIN 7500CZ) Mounting on flat surface only. Screw with care
Ingress Protection (IEC 60529)	IP67, IP69K (with IP69K mating connector)
Relative humidity	0 - 95% (non condensing, housing fully potted)
Weight	approx. 45 gram
upply voltage	10 - 30 V dc
Polarity protection	Yes
Current consumption	≤ 15 mA (excluding output signal)
perating temperature	-40 +80 °C
torage temperature	-40 +85 °C
easuring range	Factory defaults: ± 1,5 g
entering function	Yes (12 mA = 0 G), range: ±5°
requency response (-3dB)	0 - 50 Hz
ccuracy (overall @20°C)	overall 0,06 g typ.
Offset error	± 30 mg typ. (± 60 mg 2σ) after zero adjustment
Non linearity	±0,04 g typ.
Sensitivity error	± 1% typ.
Resolution	2 mg
Temperature coefficient	± 1 mg/K typ.
ax mechanical shock	10.000g
utput	4 - 20 mA
Output load	Rload ≤ (50*Vs -300) (Ω) (Eg: Vs = 24 V: Rload ≤ 900 Ω)
Short circuit protection	Yes (T<55°C), Max 10 s (T>55°C)
utput refresh rate	3 ms
rogramming options	by optional QG40N-configurator (measuring range, filtering)

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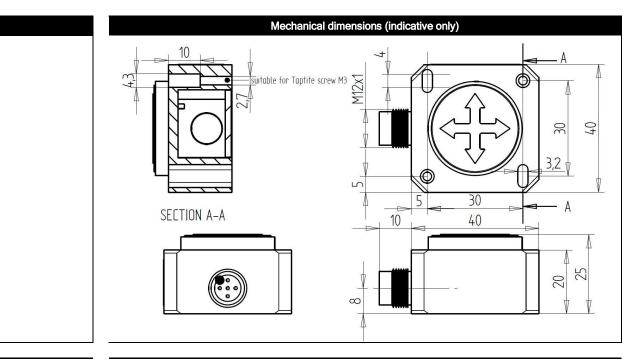


QG40N-KAXYh-1,5-AI-CM-UL



QG series





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.