# QG series

**DIS** sensors

QG40N-KAXYh-4,0-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: ± 4 g

Ingress Protection (IEC 60529)

Dimensions (indicative)

Housing

Mounting

Weight Supply voltage

Relative humidity

Polarity protection Current consumption Operating temperature Storage temperature Measuring range Centering function

Frequency response (-3dB)

Temperature coefficient

Short circuit protection

Max mechanical shock

Output load

Output refresh rate Programming options

Output

Accuracy (2σ) Offset error Non linearity Sensitivity error Resolution

0	G
0	-

QG40N-series

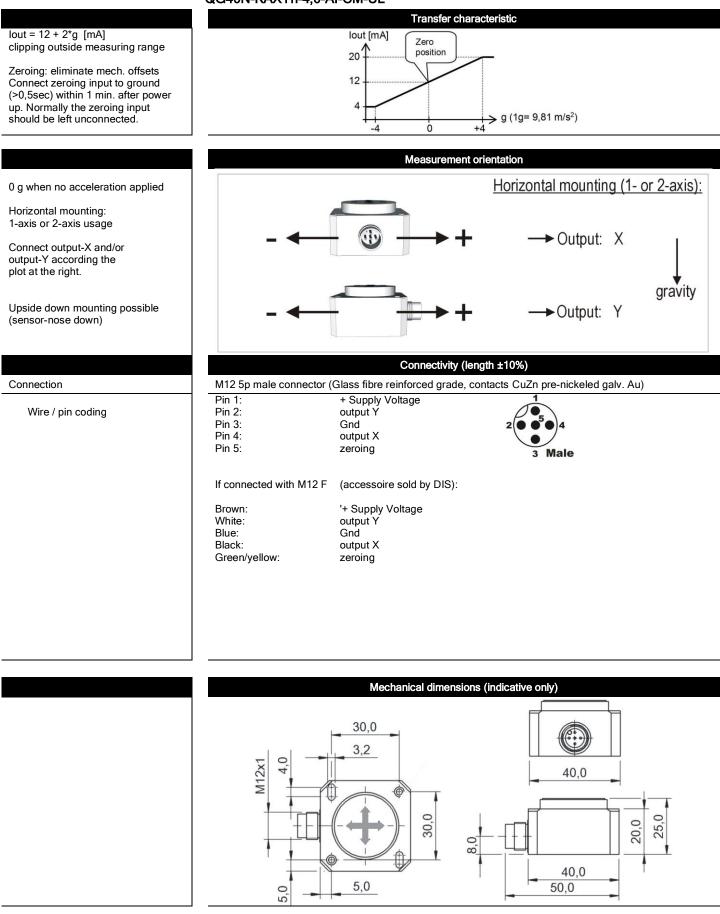


General specifications v20170717
 Plastic injection molded housing (Arnite T06 202 PBT black)
40x40x25 mm
2x M3x25 mm zinc plated steel pozidrive screws included
IP67
0 - 100%
approx. 45 gram
10 - 30 V dc
Yes
$\leq$ 15 mA ( excluding output signal )
-40 +85 °C
-40 +85 °C
Factory defaults: ± 4 g
Yes (12 mA = 0 G), range: $\pm 5^{\circ}$
0 - 50 Hz
overall 0,15 g typ.
< ± 0,3% F.S. (after zeroing)
< ± 0,4% F.S.
< ± 2%
0,005 g
± 0,5 mg/K typ.
10.000 g
4 - 20 mA
Rload $\leq$ (50*Vs-300) [ $\Omega$ ] (Eg: Vs = 24 V: Rload $\leq$ 900 $\Omega$ )
Yes (max 10 s)
3 ms
by optional QG40N-configurator (measuring range, filtering)

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### QG40N-KAXYh-4,0-AI-CM-UL







#### 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 File number: E312057. UL & c-UL listed product (UL508 standards UL60947-5-2 & CSA-C22,2 No.14) Product Identity / Category Code Number (CCN): Industrial Control Equipment / NRKH & NRKH7 Enclosure / Temperature rating: Enclosure type 1 / Temperature -40° . .+85 °C Electrical rating: Intended to be used with a Class 2 power source in accordance with UL1310 Electrical ratings: max. input Voltage 30V dc, max. current 500mA Accessory Cable Assembly: Any UL-listed (CYJV/7) mating connector with mechanical locking, wire thickness of at least 30 AWG (0,05 mm²), recommenced ≤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.