QG series

DIS sensors

QG40N-KAXYh-16,0-Al-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: ± 16 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)	
Typ. Accuracy @20°C (2σ)	
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



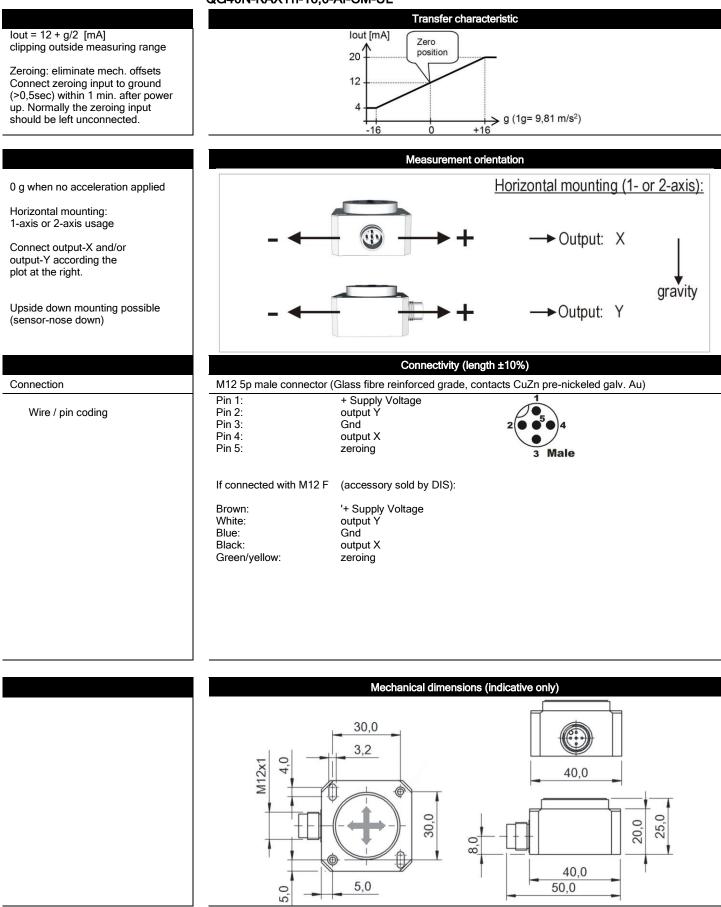


Plastic injection molded housing (Arnite T06 202 PBT black)
40x40x25 mm
ncluded: 2x M3x25 mm zinc plated steel pozidrive pan head screws, self-tapping (PZ DIN 7500C)
IP67, IP69K
0 - 100%
approx. 45 gram
10 - 30 V dc
Yes
\leq 15 mA (excluding output signal)
-40 +85 °C
-40 +85 °C
Factory defaults: ± 16 g
Yes (12 mA = 0 G), range: ±5°
0 - 50 Hz
overall 0,5 g typ.
< ± 2% F.S. (after zeroing)
< ± 1% F.S.
< ± 2%
10 mg
± 1 mg/K typ.
10.000 g
4 - 20 mA
Rload \leq (50*Vs-300) [Ω] (Eg: Vs = 24 V: Rload \leq 900 Ω)
Yes (max 10 s)
3 ms
by optional QG40N-configurator (measuring range, filtering)





QG40N-KAXYh-16,0-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 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.