QG series



US

LISTED E312057

QG40N-KIXv-090-AI-CM-UL

Inclination sensor

1 axis vertical mounting

Programmable device Output: 4 - 20 mA

Measuring range programmable between 1° and 360°

Measuring range Factory default: ±90°

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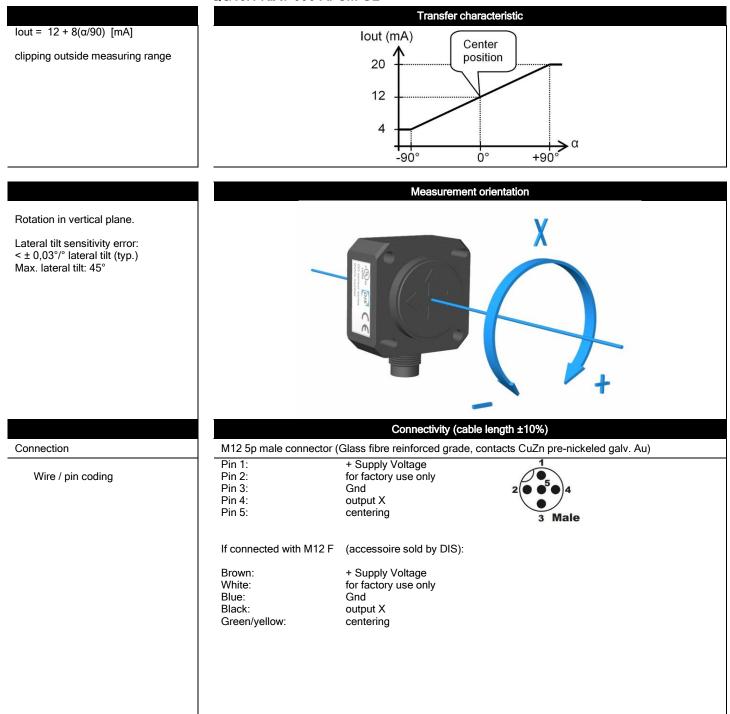
General specifications 12100, v20230828
Plastic injection molded housing (Arnite T06 202 PBT black)
40x40x25 mm
Included: 2x M3x25 mm zinc plated steel pozidrive pan head screws, self-tapping (PZ DIN 7500CZ) Mounting on flat surface only. Screw with care
IP67, IP69K (with IP69K mating connector)
0 - 95% (non condensing, housing fully potted)
approx. 45 gram
10 - 30 V dc
Yes
≤ 15 mA (excluding output signal)
-40 +80 °C
-40 +85 °C
Factory default: ±90°
Yes (12 mA = 0°), range 360°
0 - 10 Hz
0,5° typ.
± 0,2° typ. after centering
± 0,4° typ.
not applicable. Repeatability 0,2°
0,1°
± 0,08°/K typ.
10.000 g
4 - 20 mA
Rload ≤ (50*Vs-300) [Ω] (Eg: Vs = 24 V: Rload ≤ 900 Ω)
Yes (T<55°C), Max 10 s (T>55°C)
20 ms
by optional QG40N-configurator (measuring range, filtering)

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				

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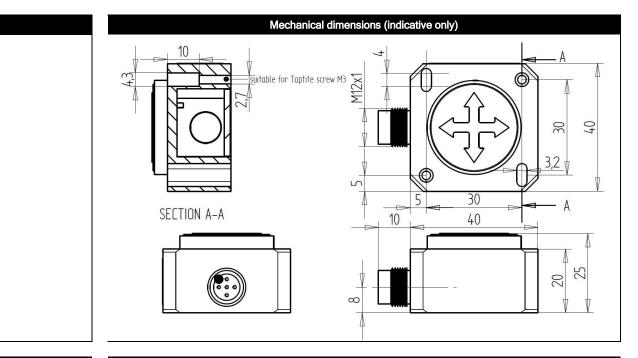


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Intended use, UL, Remarks

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.