# QG series

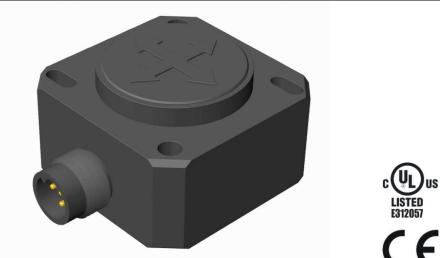
QG40N-KDXYh-030-AI-CM-UL



<b>Inclination sensor</b> 2 axis horizontal mounting	
Programmable device Output: 4 - 20 mA	
Measuring range programmable between ±1° and ±30°	
Measuring range Factory defaults: ±30°	
	1
Housing	
Dimensions (indicative)	
Mounting	Incl
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	1
Output	]
Output load	
Short circuit protection	
Output refresh rate	
Programming options	

Programming options

QG40N-series

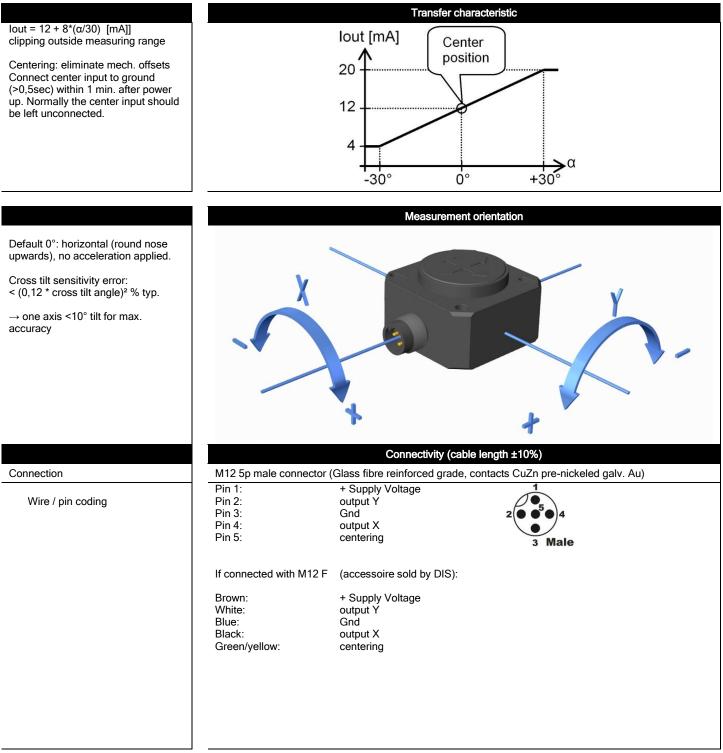


General specifications 11924B, v20241216
Plastic injection molded housing (Arnite T06 202 PBT black)
40x40x25 mm
Included: 2x M3x25 mm zinc plated steel pozidrive pan head screws, self-tapping (PZ DIN 7500CZ) Mounting on flat surface only. Screw with care
IP67, IP69K (with IP69K mating connector)
0 - 95% (non condensing, housing fully potted)
approx. 45 gram
10 - 30 V dc
Yes
$\leq$ 15 mA ( excluding output signal )
-40 +80 °C
-40 +85 °C
Factory defaults: ±30°
Yes (12 mA = $0^{\circ}$ ), range: $\pm 5^{\circ}$
0 - 10 Hz
0,5° typ.
± 0,2° typ. after centering
± 0,4° typ.
not applicable. Repeatability 0,2°
0,1°
± 0,04°/K typ.
10.000g
4 - 20 mA
22 Ohm $\leq$ Rload $\leq$ (50*Vs -300) ( $\Omega$ ) (Eg: Vs = 24 V: Rload $\leq$ 900 $\Omega$ )
Yes (T<55°C), Max 10 s (T>55°C)
20 ms
by optional QG40N-configurator (measuring range, filtering)

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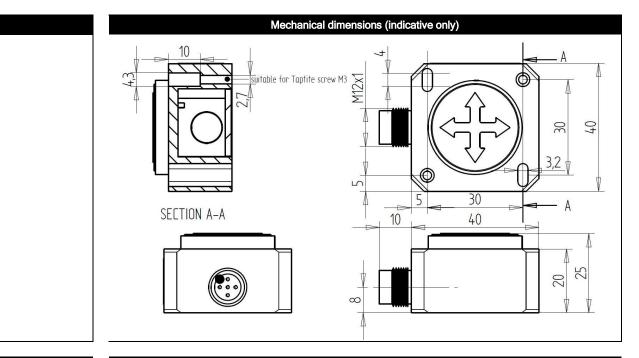


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#### Intended use, UL, Remarks

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.