QG series



QG40N-KDXYh-010-AV-CM-UL

Inclination sensor 2 axis horizontal mounting

Programmable device Output: 0,5 - 4,5 V

Measuring range programmable between $\pm 1^\circ$ and $\pm 10^\circ$

Measuring range Factory defaults: ±10°

QG40N-series	
	CULUS LISTED E312057

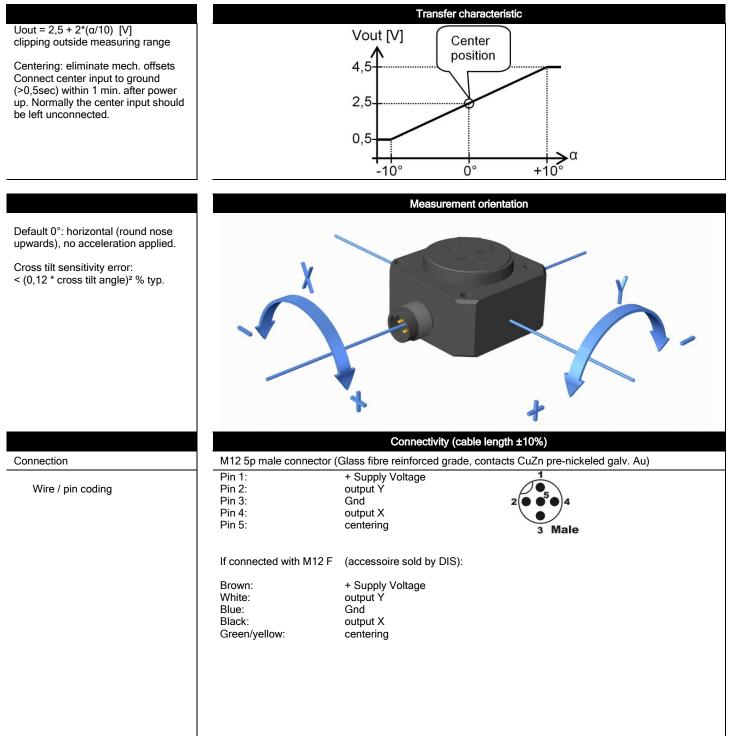
	General specifications 11926, v20230828
	Plastic injection molded housing (Arnite T06 202 PBT black)
	40x40x25 mm
Inc	Sluded: 2x M3x25 mm zinc plated steel pozidrive pan head screws, self-tapping (PZ DIN 750 Mounting on flat surface only. Screw with care
	IP67, IP69K (with IP69K mating connector)
	0 - 95% (non condensing, housing fully potted)
	approx. 45 gram
	6 - 30 V dc
	Yes
	≤ 15 mA
	-40 +80 °C
	-40 +85 °C
	Factory defaults: ±10°
	Yes (2,5 V = 0°), 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°
	± 0,08°/K typ.
	10.000g
	0,5 - 4,5 V
	Rload ≥20kΩ, Cload ≤20 nF
	Yes (max 10 s)
	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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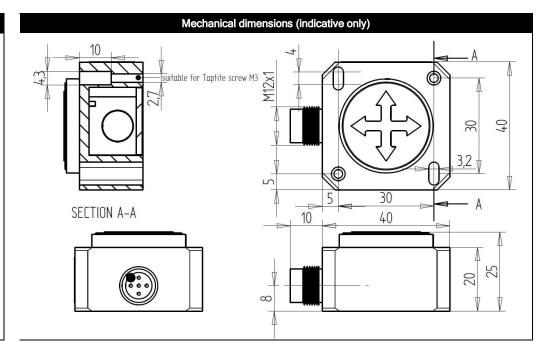


QG40N-KDXYh-010-AV-CM-UL



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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.