QG series

QG40-KD-030E-AV-CM-UL

Inclination sensor 2-axis

Non-programmable device

Output: 0,5 - 4,5 V

2-axis horizontal mounting 1-axis hori-/vertical mounting

Measuring range ± 30°

Dimensions (indicative)

Housing



General specifications 12280, v20210611

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 maximum Torque 2 Nm
IP67, IP69K (with IP69K mating connector)
0 - 95% (non condensing, housing fully potted)
approx. 45 gram
10 - 30 V dc
Yes
≤ 10 mA
-40 +80 °C
-40 +85 °C
± 30°
No
0 - 10 Hz (±2,5 Hz)
0,6° typ. (offset excluded)
± 1° typ. (± 3° 2σ)
± 0,4° typ.
± 2% typ., Repeatability 0.1°
0,03°
± 0,02°/K typ.
3.500g
0,5 - 4,5 V
Rload ≥20kΩ, Cload ≤20 nF
Yes (max 10 s)
continuous (analog)
not applicable

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

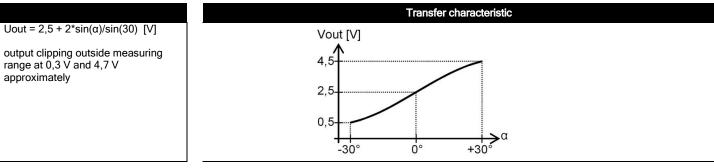


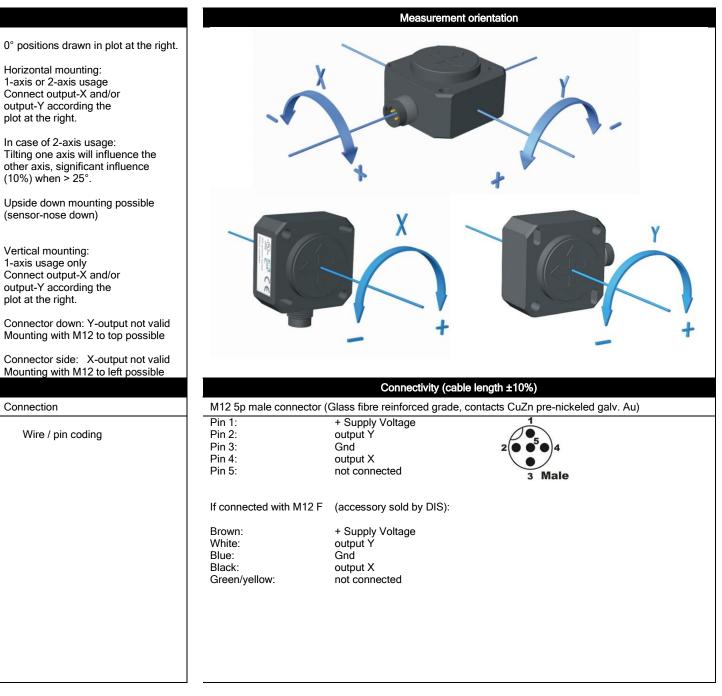
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Connection



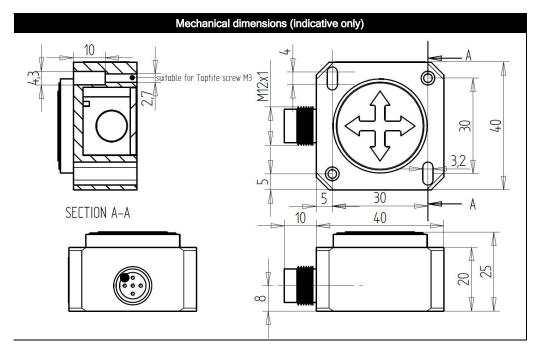
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Intended use, UL, Remarks

QG series sensors are intended to measure inclination, acceleration or tilt angle after installing in machines, equipment and systems. Flawless function in accordance with the specifications is ensured only when the device is used within its specifications. This device is not a safety component according to the EU Machine Directive (ISO13849). For full redundancy two devices can be used in the application. Modifications or non-approved use are not permitted and 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.