QG series

QG40-KD-090H-AV-CM-5V-UL

Inclination sensor 2-axis

Non-programmable device

Output: 0,5 - 4,5 V

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

For demanding applications

Measuring range ± 90°

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
Repeatability

Programming options

P





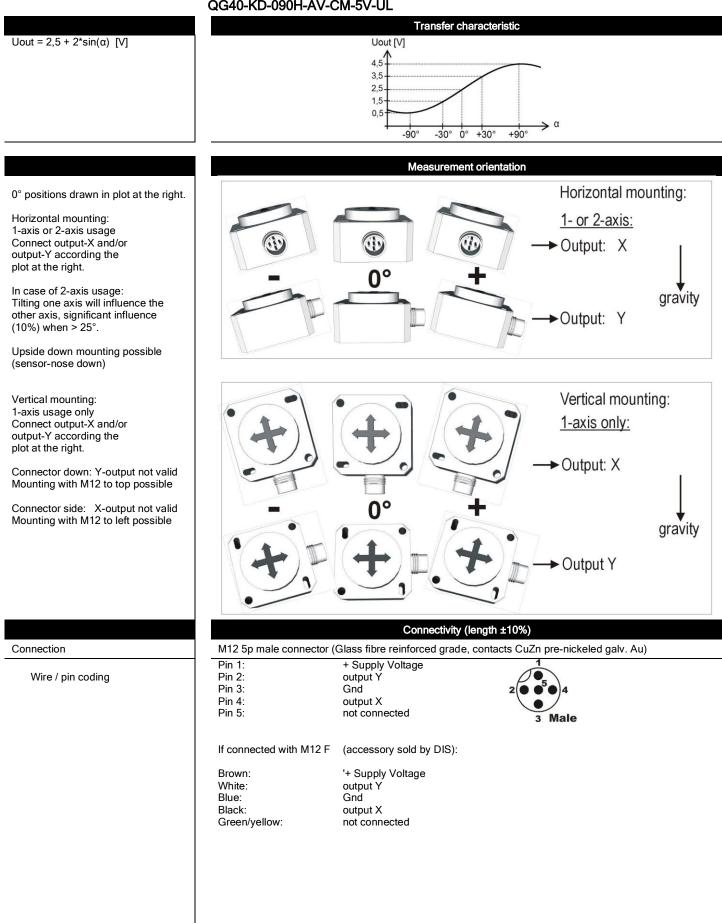
General specifications 12297, v20180112
Plastic injection molded housing (Arnite T06 202 PBT black)
40x40x25 mm
Included: 2x M3x25 mm zinc plated steel pozidrive pan head screws, self-tapping (PZ DIN 7500C)
IP67, IP69K
0 - 100%
approx. 45 gram
5 V dc
No
≤ 30 mA
-40 +85 °C
-40 +85 °C
± 90°
No
0 - 18 Hz (±10 Hz)
overall 0,9° typ. (offset excluded) (-45°+45°)
< ± 1° typ. (< ± 3° max.)
< ± 0,6° (-45°+45°)
< ± 2% typ. (< ± 3.5% max.)
0,01°
± 0,01°/K typ
20.000g
0,5 - 4,5 V Ratiometric
Rload ≥20kΩ, Cload ≤20 nF
Yes (max 10 s)
0,1°
not applicable



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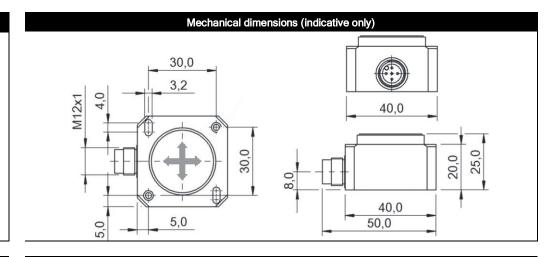


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Intended use, UL, Remarks

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 certificate: 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.