QG series



QG30-KI-010E-AV-K

Inclination sensor

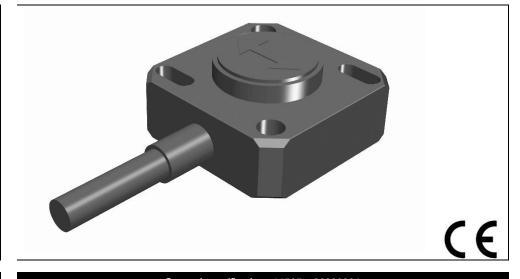
1 axis

Non-programmable device

Output: 0,5 - 4,5 V

horizontal/vertical mounting

Measuring range ± 10°



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

General specifications 11505, v20220221
Plastic injection molded housing (Arnite T06 202 PBT black)
30x30x15 mm
Included: 2x M3x16 mm zinc plated steel pozidrive pan head screws, self-tapping (PZ DIN 7500CZ) Mounting on flat surface only. Screw with maximum Torque 1,5 Nm
IP67
0 - 95% (non condensing, housing fully potted)
approx. 15 gram (cable excluded)
10 - 30 V dc
Yes
≤ 10 mA
-25 +80 °C
-25 +80 °C
± 10°
No
0 - 10 Hz (±2,5 Hz)
0,3° typ. (offset excluded)
± 1° typ. (± 3° 2σ)
± 0,2° 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

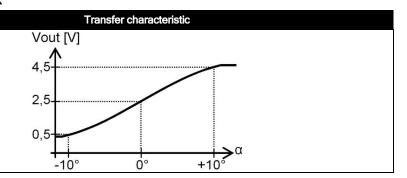
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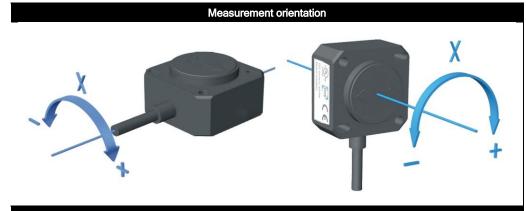
Uout = $2.5 + 11.52*sin(\alpha)$ [V]

output clipping outside measuring range at 0,1 V and 4,9 V approximately

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The QG30 can be used in both vertical and horizontal mounting position.



Connection

Wire / pin coding

Connectivity (cable length ±10%)

2 m PVC/PVC Liyy, black Ø 4,6 mm, wires: 3x0,34 mm² Sensor colors (static usage)

Brown + Supply Voltage Black Output Blue Gnd

Mechanical dimensions (indicative only) 30 22 M3 (2x)

Remarks

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.