QG series



QG30-KI-030H-AI-K

Inclination sensor

1 axis

Non-programmable device

Output: 4 - 20 mA

horizontal/vertical mounting

For demanding applications

Measuring range ± 30°







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 (typ. and/or 2σ)
Offset error
Non linearity
Sensitivity error
Resolution
Temperature coefficient
Max mechanical shock
Output
Output load
Short circuit protection
Repeatability
Programming options

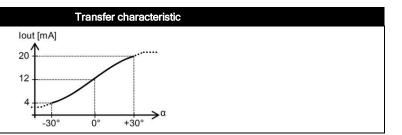
General specifications 04524, v20180111
Plastic injection molded housing (Arnite T06 202 PBT black)
30x30x15 mm
Included: 2x M3x16 mm zinc plated steel pozidrive pan head screws, self-tapping (PZ DIN 7500C)
IP67
0 - 100%
approx. 15 gram (cable excluded)
10 - 30 V dc
Yes
≤ 30 mA (excluding output signal)
-25 +80 °C
-25 +80 °C
± 30°
No
0 - 18 Hz (±10 Hz)
overall 0,6° typ. (offset excluded)
< ± 1° typ. (< ± 3° max.)
< ± 0,4°
< ± 2% typ. (< ± 3.5% max.)
0,01°
± 0,01°/K typ
20.000g
4 - 20 mA
Rload \leq (50*Vs-300) [Ω] (Eg: Vs = 24 V: Rload \leq 900 Ω)
Yes (max 10 s)
0,1°
not applicable

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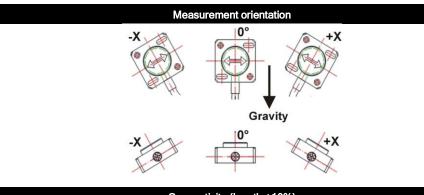


lout = 12 + 16*(sin(α) [mA] Outside measuring range sensor transfer formula is valid until clip level of approximately 2.5mA & 22.5mA

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



Connection

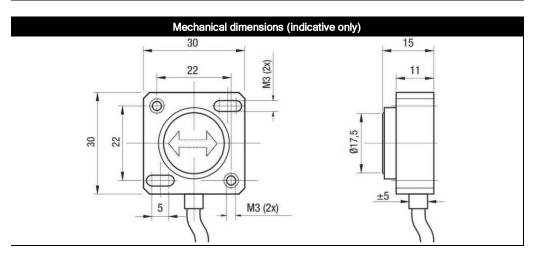
Wire / pin coding

Connectivity (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



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.