QG series



QG30-KI-030E-AI-K

Inclination sensor

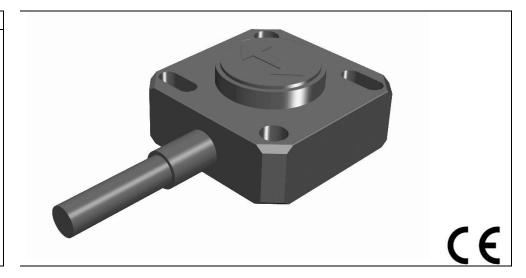
1 axis

Non-programmable device

Output: 4 - 20 mA

horizontal/vertical mounting

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 (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 |
| |

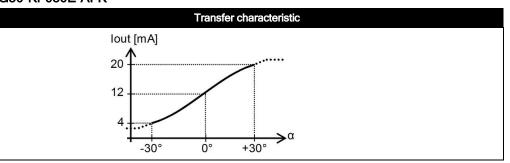
| General specifications 11315, v20220221 |
|--|
| Plastic injection molded housing (Arnite T06 202 PBT black) |
| 30x30x15 mm |
| Included: 2x M3x16 mm zinc plated steel pozidrive pan head screws, self-tapping (PZ DIN 7500CZ) Mounting on flat surface only. Screw with maximum Torque 1,5 Nm |
| IP67 |
| 0 - 95% (non condensing, housing fully potted) |
| approx. 15 gram (cable excluded) |
| 10 - 30 V dc |
| Yes |
| ≤ 10 mA (excluding output signal) |
| -25 +80 °C |
| -25 +80 °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 |
| 4 - 20 mA |
| Rload \leq (50*Vs -300) (Ω) (Eg: Vs = 24 V: Rload \leq 900 Ω) |
| Yes (T<55°C), Max 10 s (T>55°C) |
| continuous (analog) |
| not applicable |
| |

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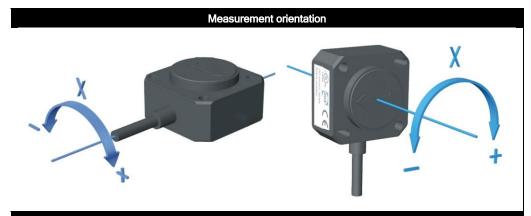


lout = 12 + 16*(sin(α) [mA] Outside measuring range sensor transfer formula is valid until clip level of approximately 2.5mA & 22.5mA

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



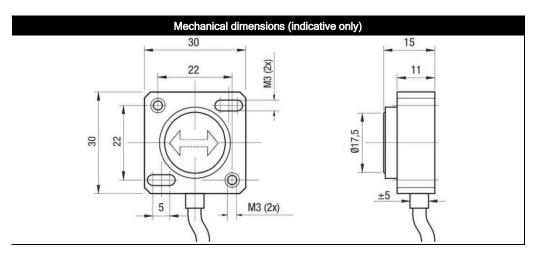
Connection

Wire / pin coding

Connectivity (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



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.