## QG series



QG30-KI-090E-AI-K

### **Inclination sensor**

1 axis

Non-programmable device

Output: 4 - 20 mA

horizontal/vertical mounting

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)
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

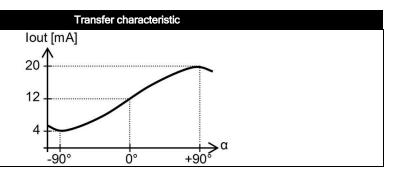
General specifications 11460, v20210611
Plastic injection molded housing (Arnite T06 202 PBT black)
30x30x15 mm
Included: 2x M3x16 mm zinc plated steel pozidrive pan head screws, self-tapping (PZ DIN 7500CZ)
IP67
0 - 95% (non condensing, housing fully potted)
approx. 15 gram (cable excluded)
10 - 30 V dc
Yes
≤ 10 mA ( excluding output signal )
-25 +80 °C
-25 +80 °C
± 90°
No
0 - 10 Hz (±2,5 Hz)
0,9° typ. (offset excluded) (-45°+45°)
± 1° typ. (± 3° 2σ)
± 0,6° typ. (-45°+45°)
± 2% typ., Repeatability 0.1°
0,03°
± 0,02°/K typ.
3.500g
4 - 20 mA
Rload $\leq$ (50*Vs -300) ( $\Omega$ ) (Eg: Vs = 24 V: Rload $\leq$ 900 $\Omega$ )
Yes (T<55°C), Max 10 s (T>55°C)
continuous (analog)
not applicable

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lout =  $12 + 8*\sin(\alpha)$  [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.

# Measurement orientation Gravity Connectivity (cable length ±10%)

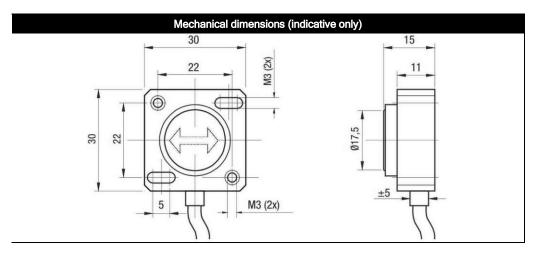
Connection

Wire / pin coding

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

Brown + Supply Voltage Black

Output Gnd Blue



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.