## QG series

QG30-KI-090E-AI-K

## **Inclination sensor** 1 axis

Non-programmable device

Output: 4 - 20 mA

horizontal/vertical mounting

Measuring range ± 90°

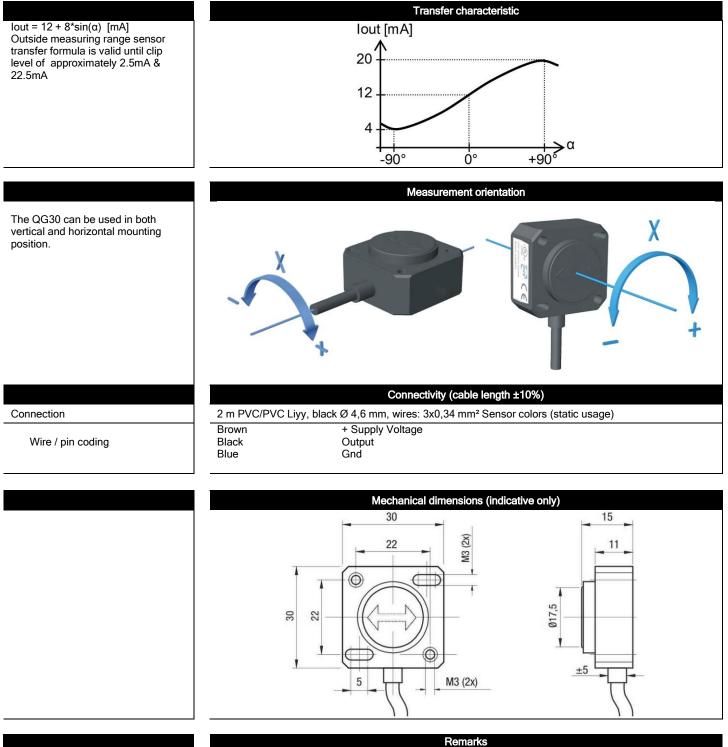
	CE

	General specifications 11460, v20220221	
Housing	Plastic injection molded housing (Arnite T06 202 PBT black)	
Dimensions (indicative)	30x30x15 mm	
Mounting	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	
Ingress Protection (IEC 60529)	IP67	
Relative humidity	0 - 95% (non condensing, housing fully potted)	
Weight	approx. 15 gram (cable excluded)	
Supply voltage	10 - 30 V dc	
Polarity protection	Yes	
Current consumption	≤ 10 mA ( excluding output signal )	
Operating temperature	-25 +80 °C	
Storage temperature	-25 +80 °C	
Measuring range	± 90°	
Centering function	No	
Frequency response (-3dB)	0 - 10 Hz (±2,5 Hz)	
Accuracy (overall @20°C)	0,9° typ. (offset excluded) (-45°+45°)	
Offset error	± 1° typ. (± 3° 2σ)	
Non linearity	± 0,6° typ. (-45°+45°)	
Sensitivity error	± 2% typ., Repeatability 0.1°	
Resolution	0,03°	
Temperature coefficient	± 0,02°/K typ.	
Max mechanical shock	3.500g	
Output	4 - 20 mA	
Output load	Rload ≤ (50*Vs -300) (Ω) (Eg: Vs = 24 V: Rload ≤ 900 Ω)	
Short circuit protection	Yes (T<55°C), Max 10 s (T>55°C)	
Output refresh rate	continuous (analog)	
Programming options	not applicable	



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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.