QG series



US

LISTED E312057

E4) Ready

QG65N2-KDXYh-090-AV3-CM-UL

Inclination sensor

2 axis horizontal mounting

Factory programmable device Output: 0 - 10 V

Measuring range programmable between $\pm 1^{\circ}$ and $\pm 90^{\circ}$

Measuring range Factory defaults: ± 90°

Contraction of the South	QG65N2 Analog Standard accuracy series	
	Comparison Parts	c' (

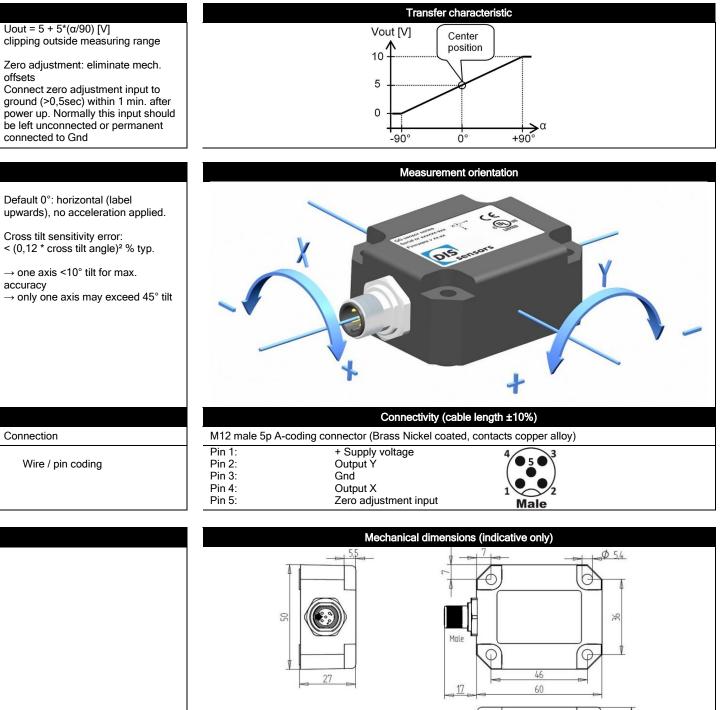
	General specifications 14304, v20241017
	Reinforced plastic injection molded (Faradex DS, black, EMI shielded by stainless steel fiber in PC)
	60x50x27 mm
	Not included: M5 pan head screws. Mounting on flat surface only. Screw with care
9)	IP67, IP69K (with IP69K mating connector)
	0 - 95% (non condensing, housing fully potted)
	approx. 110 gram
	12- 32 V dc
	Yes
	≤ 25 mA
	-40 +80 °C
	-40 +85 °C
	Factory defaults: ± 90°
	Yes (5 V = 0°), range: ±5°
	0 - 10 Hz
	0,2° typ.
	\pm 0,1° typ. (\pm 0.2° 2 σ) after zero adjustment
	\pm 0,15° typ., \pm 0.2° 2 σ , \pm 0,25° max.
	not applicable. Repeatability 0,1°
	0,01°
	T>0°C: 0.02°/K typ. en T<0°C: 0.03°/K typ.
	10,000g (max 0,2ms, non-repetitive)
	0 - 10 V
	Rload ≥20kΩ, Cload ≤20 nF
	Yes
	10 ms
	Factory programmable (measuring range, filtering)

Dimensions (indicative) Mounting Ingress Protection (IEC 60529) Relative humidity Weight Supply voltage Polarity protection Current consumption Operating temperature Storage temperature Storage temperature Measuring range Centering function Frequency response (-3dB) Accuracy (overall @20°C) Offset error Non linearity Sensitivity error			
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WeightSupply voltagePolarity protectionCurrent consumptionOperating temperatureStorage temperatureMeasuring rangeCentering functionFrequency response (-3dB)Accuracy (overall @20°C)Offset errorNon linearity			
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Current consumption Operating temperature Storage temperature Measuring range Centering function Frequency response (-3dB) Accuracy (overall @20°C) Offset error Non linearity			
Operating temperature Storage temperature Measuring range Centering function Frequency response (-3dB) Accuracy (overall @20°C) Offset error Non linearity			
Storage temperature Measuring range Centering function Frequency response (-3dB) Accuracy (overall @20°C) Offset error Non linearity			
Measuring range Centering function Frequency response (-3dB) Accuracy (overall @20°C) Offset error Non linearity			
Centering function Frequency response (-3dB) Accuracy (overall @20°C) Offset error Non linearity			
Frequency response (-3dB) Accuracy (overall @20°C) Offset error Non linearity			
Accuracy (overall @20°C) Offset error Non linearity			
Offset error Non linearity			
Non linearity			
Sensitivity error			
Resolution			
Temperature coefficient			
Max mechanical shock			
Output			
Output load			
Short circuit protection			
Output refresh rate			
Programming options			

QG series



QG65N2-KDXYh-090-AV3-CM-UL



27



Remarks, Installation instructions, UL, E4ready
QG series sensors are intended to measure inclination/acceleration/tilt. Flawless function (acc. spec.) is ensured only when used within specifications. This device is not a safety component acc. to EU Machine Directive (ISO13849). For full redundancy two devices can be used. Modifications or non-approved use will result in loss of warranty and void any claims against the manufacturer.
UL & c-UL listed product (File number E312057, UL508 standards UL60947-5-2 & CSA-C22,2 No. 14) Product Identity / Category Code Number (CCN): Industrial Control Equipment / NRKH & NRKH7 Enclosure rating: type 1, Ambient temperature: max 80 °C (see also datasheet, lowest value applies) Electrical ratings: Intended to be used with a Class 2 power source in accordance with UL1310, max. input Voltage 32V dc (see also datasheet, lowest value applies), max. current 200mA Accessory Cable Assembly: Any UL-listed (CYJV/7) mating connector with mechanical locking, wire thickness of at least 30 AWG (0,05 mm ²), recommended ≤23 AWG (≥0,25 mm ²)
Installation instructions: 1. The cable must always be used as a whole (wires may not be separated from each other) 2. For the automotive (non-R10) standards ISO 13766-1 and -2 (earth moving machinery) and ISO 14982 (agricultural), the sensor may not be directly powered from the vehicle's battery.
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. Before using this device, please read this datasheet, the Manual and the Declaration of Conformity carefully (download from dis-sensors.com)
This product is E4ready and meets Automotive EMC requirements