QG series



QG65N2-KIXv-360-AI-CM-UL

Inclination sensor

1 axis vertical mounting

Factory programmable device Output: 4 - 20 mA

Measuring range programmable between 1° and 360°

Temperature coefficient

Short circuit protection

Max mechanical shock

Output load

Output refresh rate Programming options

Output

between 1° and 360°	
Measuring range Factory default: ±180°	
Housing	Reinforced plastic injectio
Dimensions (indicative)	
Mounting	Not included: M5
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	

QG65N2 Analog Standard accuracy series



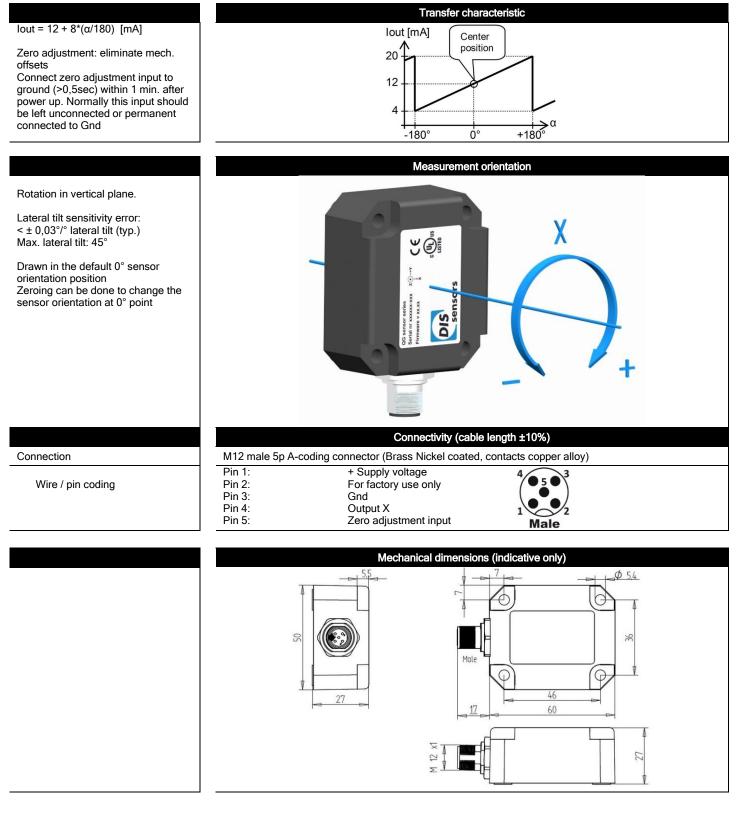
General specifications 14313, v20241017	
Reinforced plastic injection molded (Faradex DS, black, EMI shielded by stainless steel fiber in PC)	
60x50x27 mm	
Not included: M5 pan head screws. Mounting on flat surface only. Screw with care	
IP67, IP69K (with IP69K mating connector)	
0 - 95% (non condensing, housing fully potted)	
approx. 110 gram	
10 - 32 V dc	
Yes	
≤ 25 mA (excluding output signal)	
-40 +80 °C	
-40 +85 °C	
Factory default: ±180°	
Yes (12 mA = 0°), range 360°	
0 - 10 Hz	
0,2° typ.	
\pm 0,1° typ. (\pm 0.2° 2 σ) after zero adjustment	
$\pm 0,15^{\circ}$ typ., $\pm 0.2^{\circ} 2\sigma$, $\pm 0,25^{\circ}$ 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)	
4 - 20 mA	
0 ≤ Rload ≤ (Vcc-3) / 20mA (Ω), 32 ≥ Vcc ≥ 3+(Rload * 20) (V)	
Yes	
10 ms	

Factory programmable (measuring range, filtering)

QG series



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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 mm²), recommended ≤23 AWG (≥0,25 mm²)
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