QG series



QG65-KD-030H-AI-CM

Inclination sensor

2 axis horizontal mounting

Factory programmable device Output: 4 - 20 mA

Measuring range programmable between $\pm1^\circ$ and $\pm30^\circ$

Measuring range Factory defaults: ± 30°

Housing	Reinfor
Dimensions (indicative)	
Mounting	Include
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	

QG65 analog H-series



CE

General specifications 11444, v20210921

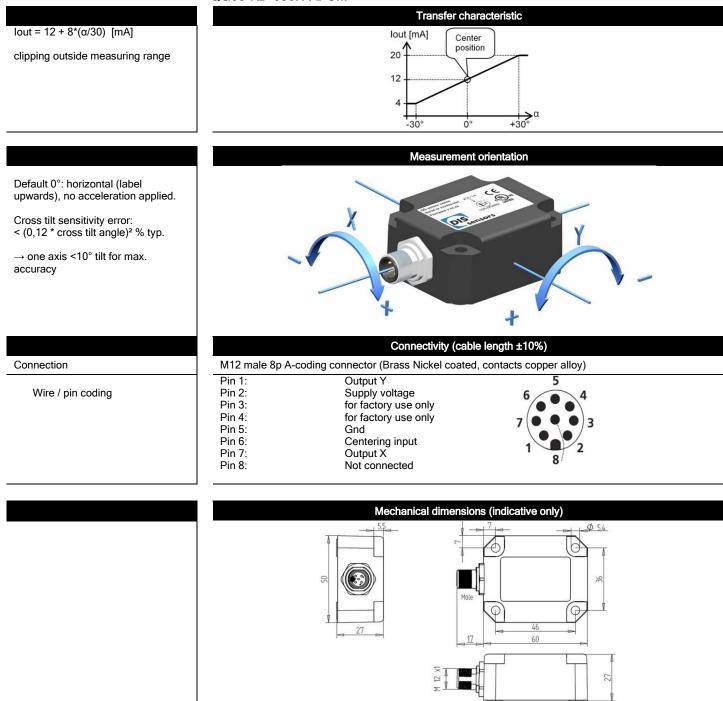
Reinforced plastic injection molded (Faradex DS, black, EMI shielded by stainless steel fiber in PC)

60x50x27 mm
Included: 4x M5x25 mm zinc plated steel pozidrive pan head screws, self-tapping (PZ DIN7500CZ) Mounting on flat surface only. Screw crosswise with maximum Torque 2.5 Nm
IP67, IP69K (with IP69K mating connector)
0 - 95% (non condensing, housing fully potted)
approx. 110 gram
10 - 30 V dc
Yes
\leq 25 mA (excluding output signal)
-40 +85 °C
-40 +85 °C
Factory defaults: ± 30°
Yes (12 mA = 0°), range: $\pm 5^{\circ}$
0 - 10 Hz
0,05° typ.
± 0,03° typ. (± 0,08° max) after centering
$\pm 0,04^{\circ}$ typ., $\pm 0,07^{\circ} 2\sigma$, $\pm 0,09^{\circ}$ max.
not applicable. Repeatability 0,05°
0,01°
± 0,005°/K typ.
20.000g
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)
20 ms
Factory programmable (measuring range, filtering)

DIS sensors

QG series

QG65-KD-030H-AI-CM



Center function

Centering can be done to eliminate mechanical offsets. To execute centering connect center input to ground (>0,5sec) within 1 min. after power up. After centering you have 1 min. left for another centering. Normally the center input should be left unconnected.

Optional: for accurate mounting two factory mounted positioning pins can be mounted (Ø4mm) replacing 2x M5x25 mm.

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.