# QG series



QG65-KD-090H-AV-CM

## Inclination sensor

2 axis horizontal mounting

Factory programmable device Output: 0,5 - 4,5 V

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

Measuring range Factory defaults: ± 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

### QG65 analog H-series



# CE

### General specifications 11443, v20210921

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

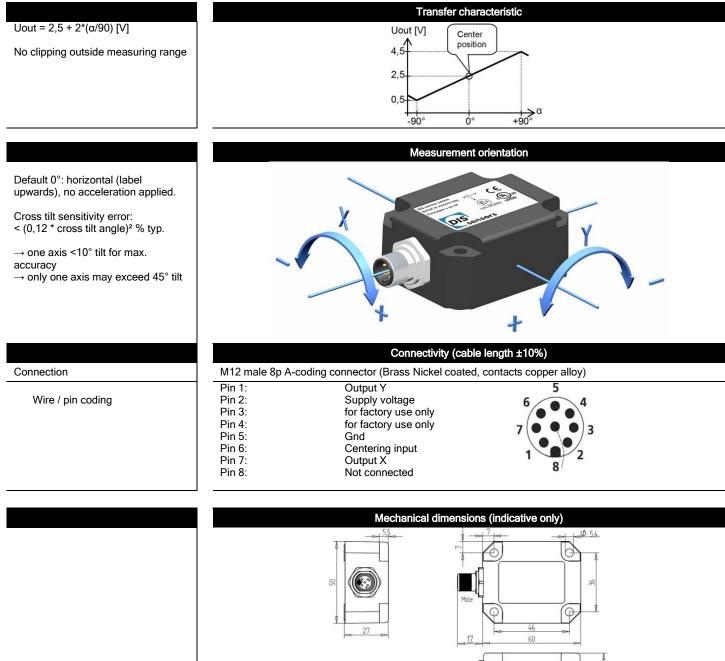
60x50x27 mm
Included: 4x M5x25 mm zinc plated steel pozidrive pan head screws, self-tapping (PZ DIN7500CZ) Mounting on flat surface only. Screw crosswise with maximum Torque 2.5 Nm
IP67, IP69K (with IP69K mating connector)
0 - 95% (non condensing, housing fully potted)
approx. 110 gram
8 - 30 V dc
Yes
≤ 25 mA
-40 +85 °C
-40 +85 °C
Factory defaults: ± 90°
Yes (2,5 V = 0°), range: ±5°
0 - 10 Hz
0,09° typ. (-60°+60°)
± 0,03° typ. (± 0,08° max) after centering
$\pm 0,07^{\circ}$ typ., $\pm 0,1^{\circ} 2\sigma \pm 0,15^{\circ}$ max. (-60°+60°)
not applicable. Repeatability 0,05°
0,01°
± 0,005°/K typ.
20.000g
0,5 - 4,5 V
Rload ≥20kΩ, Cload ≤20 nF
Yes (max 10 s)
20 ms

#### Factory programmable (measuring range, filtering)

# QG series

# **DIS** sensors

### QG65-KD-090H-AV-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 ( $\emptyset$ 4mm) 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.