QG series

QG65-KD-010..060H-ASP-CM

Tilt switch 2 axis horizontal mounting

Programmable device Output: PNP

Switch points programmable between ±1° and ±60°

Measuring range Factory default: ±60°

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CE

	General specifications 12405, v20180125	
Housing	Reinforced plastic injection molded (Faradex DS, black, EMI shielded by stainless steel fiber in PC)	
Dimensions (indicative)	60x50x27 mm	
Mounting	4x M5x25 mm zinc plated pozidrive screws included (optional: 2x Ø4mm positioning pins)	
Ingress Protection (IEC 60529)	IP67	
Relative humidity	0 - 100%	
Weight	approx. 110 gram	
Supply voltage	8 - 30V dc	
Polarity protection	Yes	
Current consumption	≤ 50 mA	
Operating temperature	-40 +85 °C	
Storage temperature	-40 +85 °C	
Measuring range	Factory default: ±60°	
Centering function	Yes (0°), range: ±5°	
Frequency response (-3dB)	0,5 Hz	
Accuracy (typ. and/or 2σ)	< ±0,4°	
Offset error	< ± 0,01° (after zeroing)	
Non linearity	not applicable	
Sensitivity error	not applicable	
Resolution	0,01°	
Temperature coefficient	± 0,005°/K typ.	
Max mechanical shock	20.000g	
Output	dual PNP	
Output load	100 mA cont., 250 mA max 10 sec., Resistive	
Short circuit protection	No	
Boot time	< 100 ms	
Programming options	by optional QG65-configurator (switch points, delay times, filtering)	
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Output X

Not connected

Pin 7: Pin 8:

sensor is mounted horizontally (label upwards) and no acceleration is applied.

 \rightarrow only one axis may exceed 45° tilt

Connection

Wire / pin coding





Zero function

Zeroing should be done within 1 min. after power up. After zeroing you've 1 min. left for another centering.

Normally the zero input should be left unconnected. Connect zero input to ground for more than 0,5s

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.