QG series



QG65-KD-025H-ASN-CM

Tilt switch

2 axis horizontal mounting

Factory programmable device Output: NPN

Switch points programmable between ±1° and ±25°

> Measuring range Factory default: ±25°

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	
Boot time	
Programming options	

QG65 analog H-series



CE

General specifications 12543, v20210921

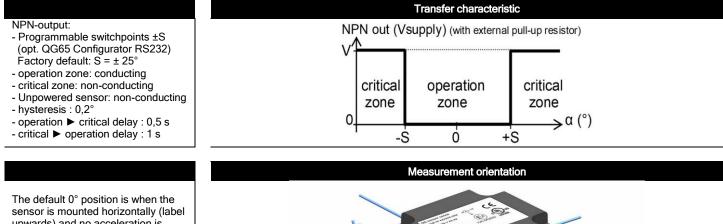
Reinforced plastic injection molded (Faradex DS, black, EMI shielded by stainless steel fiber in PC)

60x50x27 mm	
Included: 4x M5x25 mm zinc plated steel pozidrive pan head screws, self-tapping (PZ D Mounting on flat surface only. Screw crosswise with maximum Torque 2.5 Nm	IN7500CZ) า
IP67, IP69K (with IP69K mating connector)	
0 - 95% (non condensing, housing fully potted)	
approx. 110 gram	
8 - 30 V dc	
Yes	
≤ 50 mA	
-40 +60 °C	
-40 +85 °C	
Factory default: ±25°	
Yes (0°), range: ±5°	
0 - 0,5 Hz	
0,05° typ.	
not applicable after zeroing	
not applicable	
not applicable, Repeatability 0,05°	
0,01°	
± 0,005°/K typ.	
20.000g	
dual NPN	
500 mA cont., protected against back EMF	
Yes	
< 100 ms	
Factory programmable (switch points, delay times, filtering)	





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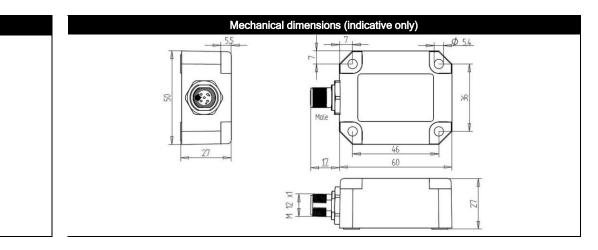


upwards) and no acceleration is applied.

Connection

Wire / pin coding

	+	+	
	Connectivity (cable		
	coding connector (Brass Nickel coated	, contacts copper alloy)	
	3		
Pin 1:	Output Y	5	
	Output Y	5	
Pin 1:	Output Y Supply voltage	⁵ ⁶ • 4	
Pin 1: Pin 2:	Output Y Supply voltage for factory use only	5	
Pin 1: Pin 2: Pin 3:	Output Y Supply voltage for factory use only for factory use only	5	
Pin 1: Pin 2: Pin 3: Pin 4:	Output Y Supply voltage for factory use only for factory use only Gnd	5	
Pin 1: Pin 2: Pin 3: Pin 4: Pin 5:	Output Y Supply voltage for factory use only for factory use only	5	



Center function

QG series sensors are intended to measure inclination, acceleration or tilt angle after installing in machines, equipment and systems. Flawless function in accordance with the specifications is ensured only when the device is used within its specifications.

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

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.