QG series



QG65-KD-001..025H-ASP-CM

Tilt switch programmable

2 axis horizontal mounting

Output PNP

Supply voltage 8 - 30V dc

Measuring range Switch points up to ± 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 (2σ)
Offset error
Non linearity
Sensitivity error
Resolution
Temperature coefficient
Max mechanical shock
Output
Output load
Short circuit protection
Boot time

General specifications 12129, v20170317			
Reinforced plastic injection molded (Faradex DS, black, EMI shielded by stainless steel fiber in PC)			
60x50x27 mm			
4x M5x25 mm zinc plated pozidrive screws included (optional: 2x Ø4mm positioning pins)			
IP67			
0 - 100%			
approx. 110 gram			
8 - 30V dc			
Yes			
≤ 50 mA			
-40 +85 °C			
-40 +85 °C			
Switch points			
up to ± 25° Yes (0°), range: ±5°			
0,5 Hz			
< ±0,1°			
< ± 0,01° (after zeroing)			
not applicable			
not applicable			
0,01°			
± 0,005°/K typ.			
20.000g			
dual PNP			
100 mA cont., 250 mA max 10 sec., Resistive			
No			
< 10 ms			
- 10 110			

QG series



PNP-output:

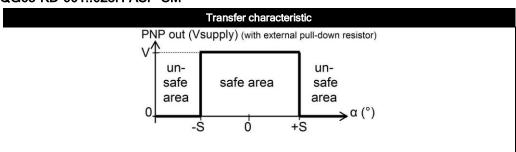
- Programmable switchpoints ±S (opt. QG65 Configurator RS232) Factory default: S = ± 15°
- at 0°: safe area, conducting
- outside ±S: unsafe, non-conducting
- Unpowered sensor: non-conducting
- hysteresis: 0,2°
- safe ▶ unsafe delay : 500 mS unsafe ▶ safe delay : 1000 mS

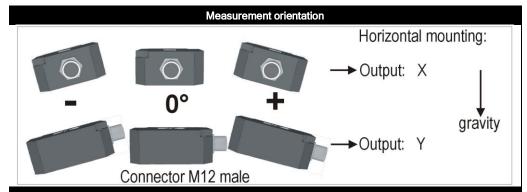
The default 0° position is when the sensor is mounted horizontally (label upwards) and no acceleration is applied.

Connection

Wire / pin coding

QG65-KD-001..025H-ASP-CM

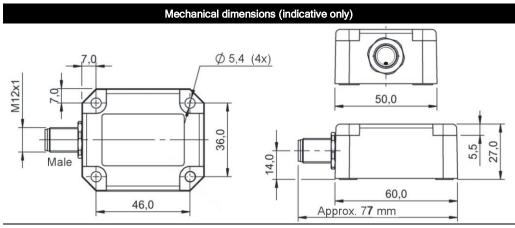




Connectivity (length ±10%)

M12 male 8p connector (Brass Nickel coated, contacts copper alloy)

F	· · · · · · · · · · · · · · · · · · ·	7 /
Pin 1:	Output Y	5
Pin 2:	Supply voltage	6 4
Pin 3:	Programming interface RS232 Rx	
Pin 4:	Programming interface RS232 Tx	7 0 0 0 2
Pin 5:	Gnd	1
Pin 6:	Zero input	1
Pin 7:	Output X	0 2
Pin 8.	Not connected	0



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.

