QG series



QG65-KD-025H-ASP-CM

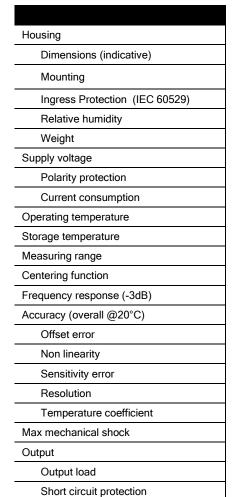
Tilt switch

2 axis horizontal mounting

Factory programmable device Output: PNP

Switch points programmable between ±1° and ±25°

Measuring range Factory default: ±25°



Boot time

Programming options

QG65 analog H-series





General specifications 12542, 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
≤ 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 PNP
500 mA cont., protected against back EMF
Yes
< 100 ms
Factory programmable (switch points, delay times, filtering)

QG series



PNP-output:

- Programmable switchpoints ±S (opt. QG65 Configurator RS232) Factory default: S = ± 25°
- operation zone: conducting
- critical zone: non-conducting
- Unpowered sensor: non-conducting hysteresis: 0,2°
- operation ► critical delay : 0,5 s
- critical ► operation delay : 1 s

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

Measurement orientation

Transfer characteristic

PNP out (Vsupply) (with external pull-down resistor)

operation

zone

Ó

critical

zone

+S

¬ α (°)

Connection

Wire / pin coding

Connectivity (cable length ±10%)

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

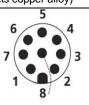
critical

zone

-S

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Pin 1:			Output Y
Pin 2:			Supply voltage
Pin 3:			RS232 DATA from sensor to PC
Pin 4:			RS232 DATA from PC to sensor
Pin 5:			Gnd
Pin 6:			Zero input
Pin 7:			Output X
Pin 8			Not connected

QG65-KD-025H-ASP-CM



Mechanical dimensions (indicative only) \$ 54

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.