QG series



QG40N-KIXh-040S-ASP1-CM

Tilt detector with permanent hold function (fall over detector)

1 axis horizontal mounting

Output PNP

Supply voltage 8 - 30V dc

Measuring range detection angle: ±40°





QG40N-KIXh-040S-ASP1-CM
Housing
Dimensions
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
Offset error
Non linearity
Sensitivity error
Resolution
Temperature coefficient
Max mechanical shock
Output
Output load
Short circuit protection
Boot up time

General specifications v20140625
Plastic injection molded housing (Quadro40, PBTP black)
40x40x25 mm
2x steel zinc plated M3x25 mm Pozidrive screws
IP67
0 - 95% non condensing
ca 50 gr
8 - 30V dc
Yes
≤ 25 mA
-25 +85°C
-25 +85°C
detection angle: ±40°
Yes (0°), range: ±5°
0-0,1 Hz
±5°
0° (after zeroing)
not applicable
not applicable
0,09°
± 0,04°/K typ
10.000g
PNP
1A DC max.
Yes
< 10 ms

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PNP-output:

- at 0°: safe area, conducting

 $-S = \pm 40^{\circ}$

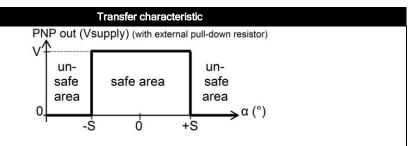
- outside ±S: unsafe, non-conducting

- Unpowered sensor: non-conducting

- hysteresis : 2°

- safe ▶ unsafe delay : 1 sec

- unsafe ▶ safe delay : infinite



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



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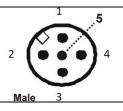
Connection

Wire / pin coding

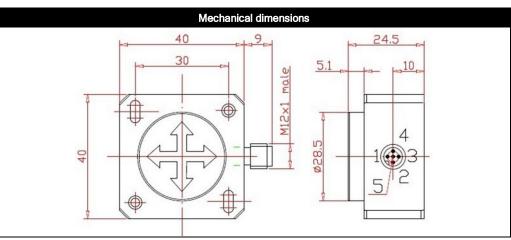
M12 5p male connector

Pin 1: + Supply Voltage Pin 2: For factory use only

Pin 3: Gnd Pin 4: Output X Pin 5: Centering



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Zero function & hold 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

This device will hold the output to 0V permanent (with external pull down) as soon as the unsafe area conditions are met once.

After a power cycle the device will hold this output to 0V (single use device)