QG series

QG40N-KIXv-170-ASP-CM-UL

Tilt switch 1 axis vertical mounting

Programmable device Output: PNP

Switch points programmable between ±1° and ±170°

> Measuring range Factory defaults: ±90° & ± 170°

Dimensions (indicative)

Ingress Protection (IEC 60529)

Housing

Mounting

Weight Supply voltage

Relative humidity

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

Short circuit protection

Max mechanical shock

Output load

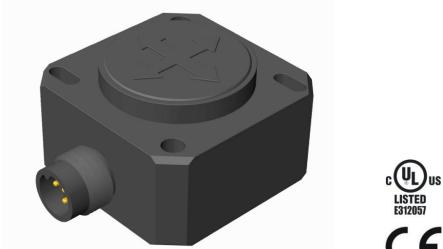
Programming options

Output

Boot time

|--|



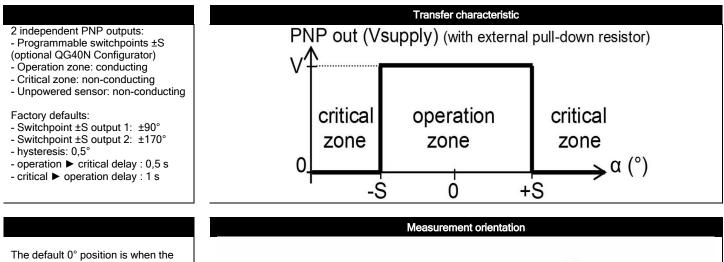


General specifications 12262A, v20230828
Plastic injection molded housing (Arnite T06 202 PBT black)
40x40x25 mm
Included: 2x M3x25 mm zinc plated steel pozidrive pan head screws, self-tapping (PZ DIN 7500CZ) Mounting on flat surface only. Screw with care
IP67, IP69K (with IP69K mating connector)
0 - 95% (non condensing, housing fully potted)
approx. 45 gram
6 - 30 V dc
Yes
≤ 25 mA
-40 +60 °C
-40 +85 °C
Factory defaults: ±90° & ± 170°
Yes (0°), range: 360°
0 - 0,7 Hz
0,3° typ. (0,5° max)
not applicable after zeroing
not applicable
not applicable, Repeatability 0,2°
0,1°
± 0,08°/K typ.
10.000g
dual PNP
2x 500 mA continuously, Temperature protected, protected against back EMF
Yes, continously
< 100 ms
by optional QG40N-configurator (switch points, delay times, filtering)

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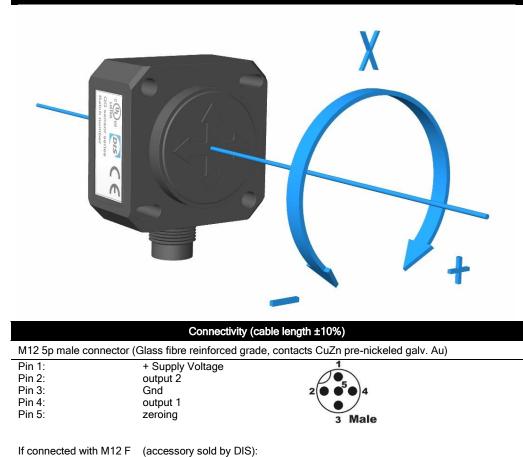


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sensor is mounted vertically (M12 downwards) and no acceleration is applied. Zeroing: eliminate mech. offsets

Connect zeroing input to ground (>0,5sec) within 1 min. after power up. Normally the zeroing input should be left unconnected. Zeroing is possible at any position in vertical plane.



Connection

Wire / pin coding

+ Supply Voltage output 2 Gnd output 1 Green/yellow: zeroing

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Brown:

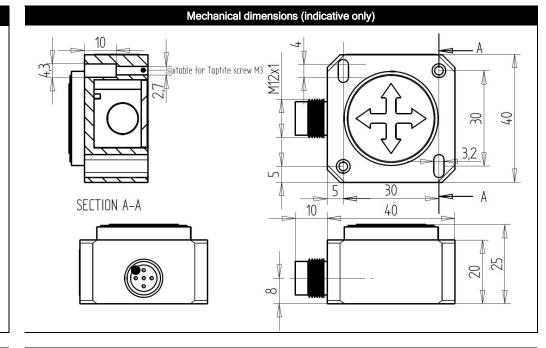
White:

Blue:

Black:

QG series





Intended use, UL, Remarks

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. This device is not a safety component according to the EU Machine Directive (ISO13849). For full redundancy two devices can be used in the application. Modifications or non-approved use are not permitted and will result in loss of warranty and void any claims against the manufacturer. UL & c-UL listed product (File number E312057, UL508 standards UL60947-5-2 & CSA-C22,2 No. 14) Product Identity / Category Code Number (CCN): Industrial Control Equipment / NRKH & NRKH7 Enclosure rating: type 1, Ambient temperature: max 80 °C (see also datasheet, lowest value applies) Electrical ratings: Intended to be used with a Class 2 power source in accordance with UL1310, max. input Voltage 32V dc (see also datasheet, lowest value applies), max. current 200mA

Accessory Cable Assembly: Any UL-listed (CYJV/7) mating connector with mechanical locking, wire thickness of at least 30 AWG (0,05 mm²), recommended ≤23 AWG (≥0,25 mm²)

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.