QG series

DIS sensors

QG40N-KAXYZ-16,0-AI-PT

Acceleration sensor 3 axis

Programmable device Output: 4 - 20 mA

Measuring range programmable between 0,1 g and 16 g

Measuring range Factory defaults: ± 16 g

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
Output refresh rate
Programming options

QG40N-series



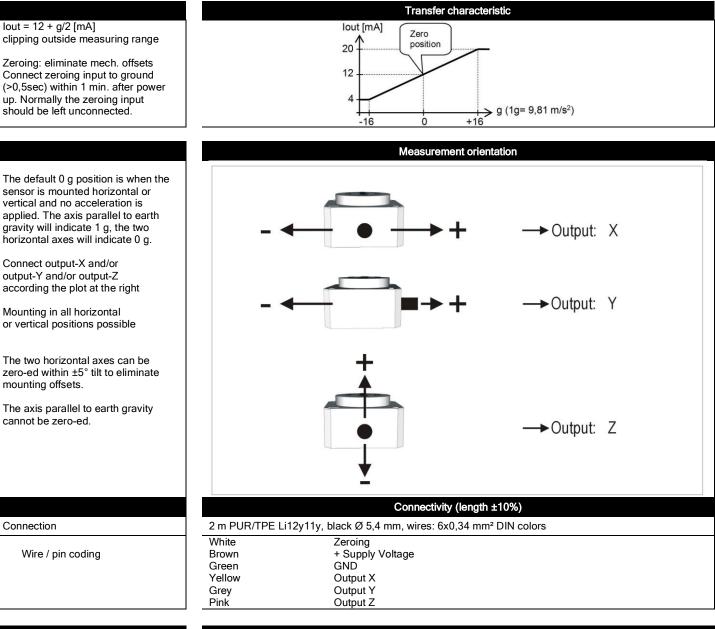
CE

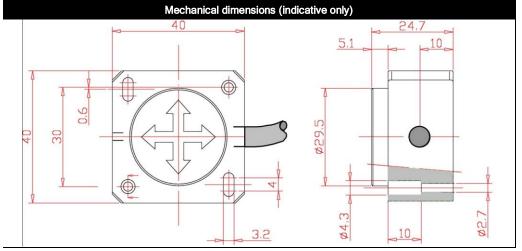
General specifications v20170717
Plastic injection molded housing (Arnite T06 202 PBT black)
40x40x25 mm
2x M3x25 mm zinc plated steel pozidrive screws included
IP67
0 - 100%
approx. 45 gram (cable excluded)
10 - 30 V dc
Yes
\leq 15 mA (excluding output signal)
-40 +85 °C
-40 +85 °C
Factory defaults: ± 16 g
Yes (12 mA = 0 G), range: $\pm 5^{\circ}$ (horizontal axes only)
0 - 50 Hz
overall 0,5 g typ.
< ± 0,3% F.S. (after zeroing)
< ± 0,8% F.S.
< ± 2.5%
0,016 g
± 1 mg/K typ.
10.000 g
4 - 20 mA
Rload \leq (50*Vs-300) [Ω] (Eg: Vs = 24 V: Rload \leq 900 Ω)
Yes (max 10 s)
3 ms
by optional QG40N-configurator + optional QG40N breakout-cable (measuring range, filtering)

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Intended use, Remarks

QG series sensors are intended to measure inclination/acceleration/tilt. Flawless function (acc. spec.) is ensured only when used within specifications. This device is not a safety component acc. to EU Machine Directive (ISO13849). For full redundancy two devices can be used. Modifications or non-approved use will result in loss of warranty and void any claims against the manufacturer.

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.