QG series



QG65N2-KDXYh-090H-CAN-C(F)M-UL

Inclination sensor

2 axis horizontal mounting

Programmable device Interface: CANopen

Parameters programmable by DIS configurator and CANopen object dictionary

Measuring range ± 90°

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

CAN interface (physical layer)

Programming options Output format Filtering

Modes of operation Internal CANbus termination

Programming options

CANopen application layer and communication profile

Max mechanical shock

Baud rate Node Id TPDO Event time Sync mode Heartbeat

Boot time



General specifications 12863, 12866, v20221011
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
10 - 32 V dc
Yes
50mA typ. For CFM models (daisy-chained CANbus): max. current internal T-junction: 2.5A
-40 +80 °C
-40 +85 °C
± 90°
Yes (CANout 0 = 0°), range: ±5°
0 - 10 Hz
0,07° typ.
$\pm 0.01^{\circ}$ typ. ($\pm 0.02^{\circ} 2\sigma$) after centering
$\pm 0,06^{\circ}$ typ., $\pm 0,1^{\circ} 2\sigma, \pm 0,15^{\circ}$ max.
not applicable. Repeatability 0,05°
0,01°
± 0.003°/K typ., ± 0.005°/K (2σ)
10,000g (max 0,2ms)
According to ISO 11898-1 & ISO 11898-2 (CAN 2.0 A/B), Short circuit protected
CANopen, CiA301 V4.2.0 & EN 50325-4 + Device Profile CiA410 DSP 2.0.0 for inclinometers
250 kbit/s (default, range 10/20/50/100/125/250/500/800/1000 kbit/s 01h (range: 01h - 7Fh) For Node ID=01h: TPDO1: 181h, TPDO2: 281h TPDO1: 10 - 500 ms (default: 100 ms) On/off (default: off) On/off (default: on, 2s) Baudrate, Node Id, Event time, Sync mode, Heartbeat, Output format, CANbus termination, filtering Integer: -9000 to +9000 (PDO1:X=byte 2,1;Y=byte 4,3) Bessel LPF 10Hz on, TPDO averaging off, Output filter off Event mode, Sync-mode. Default: auto-startup Event mode

nt mode, Sync-mode. Default: auto-startup Event mode 120 Ohm on/off (default: off)

< 0.5 s

by optional DIS Configurator and CANopen object dictionary (CAN parameters, filtering)

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