# **QG** series



( E

### QG65N2 CANopen Standard accuracy series

#### QG65N2-KDXYh-090-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°

CANopen Standard accuracy series	
Controport ordinated accounted y control	

	General specifications 12825, 12828, v20221011
Housing	Reinforced plastic injection molded (Faradex DS, black, EMI shielded by stainless steel fiber in PC)
Dimensions (indicative)	60x50x27 mm
Mounting	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
Ingress Protection (IEC 60529)	IP67, IP69K (with IP69K mating connector)
Relative humidity	0 - 95% (non condensing, housing fully potted)
Weight	approx. 110 gram
Supply voltage	10 - 32 V dc
Polarity protection	Yes
Current consumption	50mA typ. For CFM models (daisy-chained CANbus): max. current internal T-junction: 2.5A
Operating temperature	-40 +80 °C
Storage temperature	-40 +85 °C
Measuring range	± 90°
Centering function	Yes (CANout 0 = 0°), range: ±5°
Frequency response (-3dB)	0 - 10 Hz
Accuracy (overall @20°C)	0,15° typ.
Offset error	$\pm$ 0,05° typ. ( $\pm$ 0,1° 2 $\sigma$ ) after centering
Non linearity	± 0,1° typ., ± 0,15° 2σ, ± 0,2° max.
Sensitivity error	not applicable. Repeatability 0,1°
Resolution	0,01°
Temperature coefficient	T>0°C: 0.015°/K typ. en T<0°C: 0.03°/K typ.
Max mechanical shock	10,000g (max 0,2ms)
CAN interface (physical layer)	According to ISO 11898-1 & ISO 11898-2 (CAN 2.0 A/B), Short circuit protected
CANopen application layer and communication profile	CANopen, CiA301 V4.2.0 & EN 50325-4 + Device Profile CiA410 DSP 2.0.0 for inclinometers
Baud rate Node Id TPDO Event time Sync mode Heartbeat Programming options Output format Filtering Modes of operation Internal CANbus termination	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 120 Ohm on/off (default: off)
Boot time	< 0.5 s
Programming options	by optional DIS Configurator and CANopen object dictionary (CAN parameters, filtering)

# QG series



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





