QG series



QG65D-KDXYh-030H-CAN-C(F)M-UL

Dynamic Inclination sensor 2 axis horizontal mounting

Programmable device Interface: CANopen

Parameters programmable by DIS configurator and CANopen object dictionary

Measuring range ± 30°

Housing	Reinforc
Dimensions (indicative)	
Mounting	Included
Ingress Protection (IEC 60529)	
Relative humidity	
Weight	
Supply voltage	
Polarity protection	
Current consumption	50m/
Operating temperature	
Storage temperature	
Measuring range	
Centering function	
Frequency response (-3dB)	
Accuracy (overall @20°C)	
Offset error	
Non linearity	
Sensitivity error	
Resolution	
Temperature coefficient	
Max mechanical shock	
CAN interface (physical layer)	
CANopen application layer and communication profile	CANo
Baud rate Node Id TPDO Event time Sync mode	
Heartbeat Programming options Output format Application profiles Modes of operation Internal CANbus termination	Baudrate
Boot time	1

QG65D CAN High accuracy series



General specifications 12698, 12699, v20210119

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) (optional: Factory mounted 2x Ø4mm positioning pins replacing 2x M5x25 mm)
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
± 30°
Yes (CANout 0 = 0°), range: ±5°
0 - 100 Hz, Max angle rate 500°/s
0,07° typ. (static), 0,5° typ. (dynamic)
± 0,02° typ. after centering
Static: $\pm 0.06^{\circ}$ typ., $\pm 0.1^{\circ} 2\sigma$, $\pm 0.15^{\circ}$ max, Dynamic: $\pm 0.5^{\circ}$ typ. (*) (**)
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: -3000 to +3000 (PDO1:X=byte 2,1;Y=byte 4,3) 0/1/2/3 (factory default: profile 1)
Event mode, Sync-mode. Default: auto-startup Event mode 120 Ohm on/off (default: off)
< 0.5 s

by Optional DIS Configurator set CAN and CANopen object dictionary (CAN parameters, application profiles, filtering)

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