QG series



QG65N2-KDXYh-030H-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 ± 30°

Contraporting decided contra	CRNopen E4
	CUL US LISTED E312057

	General specifications 12862, 12865, 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	± 30°	
Centering function	Yes (CANout 0 = 0°), range: ±5°	
Frequency response (-3dB)	0 - 10 Hz	
Accuracy (overall @20°C)	0,07° typ.	
Offset error	± 0,01° typ. (± 0,02° 2σ) after centering	
Non linearity	$\pm 0,06^{\circ}$ typ., $\pm 0,1^{\circ} 2\sigma, \pm 0,15^{\circ}$ max.	
Sensitivity error	not applicable. Repeatability 0,05°	
Resolution	0,01°	
Temperature coefficient	± 0.003°/Κ typ., ± 0.005°/Κ (2σ)	
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	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) Bessel LPF 10Hz on, TPDO averaging off, Output filter off Event mode, Sync-mode. Default: auto-startup Event mode	
Internal CANbus termination Boot time	<pre>120 Ohm on/off (default: off) <pre>< 0.5 s</pre></pre>	
Programming options	by optional DIS Configurator and CANopen object dictionary (CAN parameters, filtering)	

QG65N2 CANopen High accuracy series

QG series



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