QG series



CANopea

UL)us

LISTED E312057

QG76N2-SDXYh-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°

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 (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 Baud rate
Node Id
TPDO
Event time Sync mode
Heartbeat
Programming options
Output format
Filtering
Modes of operation
Internal CANbus termination Boot time
Programming options

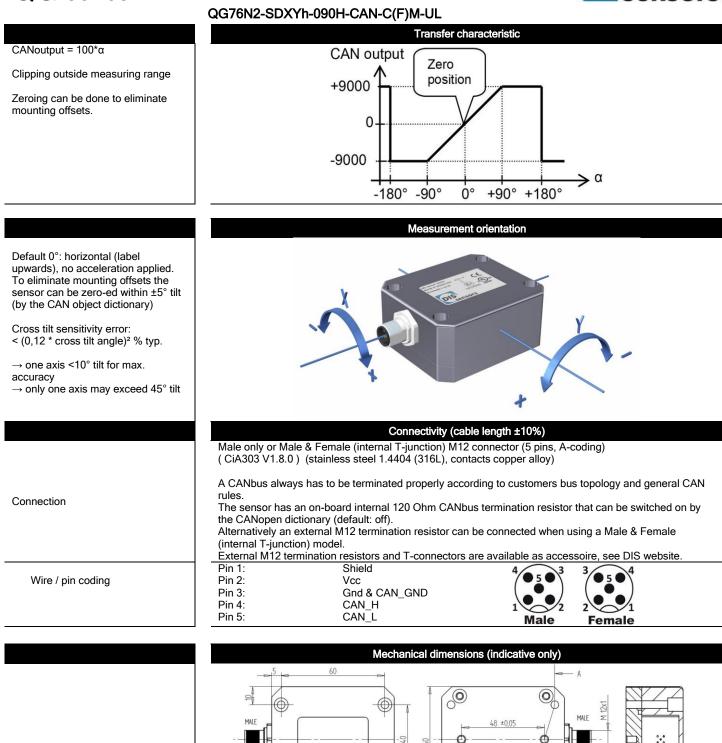
QG76N2 CANopen High accuracy series



General specifications v20230412
Stainless steel (AISI 316)
70x60x33 mm
Not Included: 4x M4x30 mm stainless steel (A4) Hexagon socket head screws
IP67, IP69K (with IP69K mating connector), (IP68 with optional cable gland)
0 - 95% (non condensing, housing fully potted)
approx. 700 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° typ. (\pm 0,02° 2 σ) 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°/Κ typ., ± 0.005°/Κ (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 120 Ohm on/off (default: off)
< 0.5 s
by optional DIS Configurator and CANopen object dictionary (CAN parameters, filtering)

QG series





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SECTION A-A



