QG series



QG65D SAE J1939 standard accuracy series

QG65D-KDXYh-090-CANJ-C(F)M-UL

Dynamic Inclination sensor

2 axis horizontal mounting

Programmable device Interface: CAN SAE J1939

Parameters programmable by J1939

> 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
SAE J1939
Baud rate Default address PGN PGN cycle time Priority Output format Internal CANbus termination
Boot time
Programming options



SAE J1939
CUL US LISTED E312057
CE

General specifications 14002, 14005, 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 - 100 Hz, Max angle rate 500°/s
0,15° typ. (static), 0,8° typ. (dynamic)
± 0,05° typ. (± 0,1° max.) after centering
Static: $\pm 0.1^{\circ}$ typ., $\pm 0,15^{\circ} 2\sigma$, $\pm 0.2^{\circ}$ max, Dynamic: $\pm 0,8^{\circ}$ typ. (*) (**)
not applicable. Repeatability 0,1°
0,01°
T>0°C: 0.015°/K typ. en T<0°C: 0.03°/K typ.
10,000g (max 0,2ms)
According to ISO 11898-1 & ISO 11898-2 (CAN 2.0 A/B), Short circuit protected
SAE J1939
250 kbit/s (range 250/500kbit/s) 80h = 128dec
Inclination: FF00h = 65280dec
100ms 3 (default)
Integer: -9000 to +9000 (X=byte 1,0; Y=byte 3,2)
120 Ohm on/off (default: off) < 0.5 s
J1939 parameters: baud rate, device address PGN, cycle time, priority.
Sensor functions: internal CANbus termination

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