## QG series



SAEJ1939

(E4)

QG65D-KIXv-360-CANJ-C(F)M-UL

# Dynamic Inclination sensor

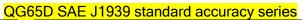
1 axis vertical mounting

Programmable device Interface: CAN SAE J1939

Parameters programmable by J1939

Measuring range ±180°

| 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<br>Default address<br>PGN<br>PGN cycle time<br>Priority<br>Output format<br>Internal CANbus termination |
| Boot time   |
| Programming options   |



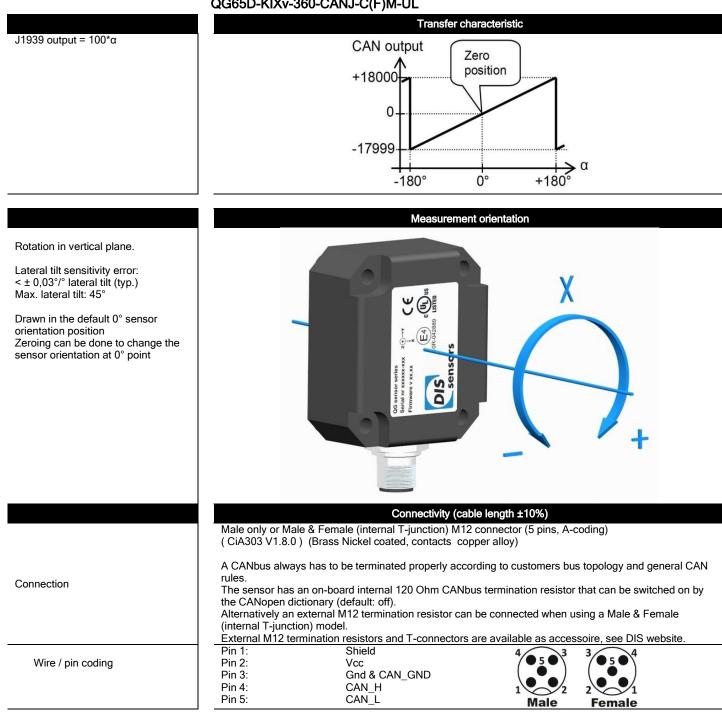


| General specifications 14003, 14006, v20221011   |
|--|
| Reinforced plastic injection molded (Faradex DS, black, EMI shielded by stainless steel fiber in PC)   |
| 60x50x27 mm  |
| Included: 4x M5x25 mm zinc plated steel pozidrive pan head screws, self-tapping (PZ DIN7500CZ)<br>Mounting on flat surface 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   |
| ±180°  |
| Yes (CANout 0 = 0°), range: 360°   |
| 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)<br>80h = 128dec<br>Inclination: FF00h = 65280dec<br>100ms<br>3 (default)<br>Integer: -17999 to +18000 (X=byte 1,0; Y=byte 3,2)<br>120 Ohm on/off (default: off) |
| < 0.5 s  |
| J1939 parameters: baud rate, device address PGN, cycle time, priority.<br>Sensor functions: internal CANbus termination  |
|  |

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