

QG65N-KIXv-360-CAN-CFM

Inclination sensor 1 axis vertical mounting

Output
CANopen

Supply voltage
8 - 30 Vdc

Measuring range
360°



CANopen



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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 (2σ)
Offset error
Non linearity
Sensitivity error
Resolution
Temperature coefficient
Max mechanical shock
CAN interface (hardware)
CAN communication profile
Baud rate
Node Id
TPDO
Event time
Sync mode
Heartbeat
Programming options
Output format
Filtering
Modes of operation
Integrated termination resistor
Boot time

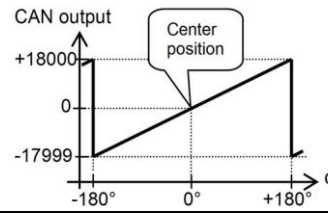
General specifications 11522, v20140728

Plastic injection molded housing (Faradex DS, black, EMI shielded by stainless steel fiber in PC)
60x50x27 mm
4x M5x25 mm zinc plated pozidrive screws included (optional: 2x Ø4mm positioning pins)
IP67
0 - 100%
ca 110 gr
8 - 30 Vdc
Yes
≤ 50 mA
-40 .. +85°C
-40 .. +85°C
360°
Yes (CANout 0 = 0°), range: 360°
10 Hz
overall 0,09° typ.
< ± 0,03° typ. (< ± 0,08° max.) after centering
< ± 0,09° typ. (< ± 0,18° max.)
not applicable
0,01°
± 0,009°/K typ.
10.000g
CAN 2.0 A and B according to ISO 11898-1 & ISO 11898-2
CANopen, CiA301 V4.2.0 & EN 50325-4
125 kbit/s (default), 250 kbit/s, 500 kbit/s, 1Mbit/s 01h (range: 01h - 7Fh) TPDO1: 181h (for Node ID=01h) TPDO1: 5 - 500 ms (default: 100 ms) On/off (default: off) On/off (default: on, 2s)
Baudrate, Node Id, Event time, Sync mode, Heartbeat, Output format Integer: -17999 to +18000 (PDO1:byte 2,1) Input filter enabled, output filter disabled Event mode, Sync-mode Optional, default: no
< 1 s

QG65N-KIXv-360-CAN-CFM

CANoutput = $100 \cdot \alpha$

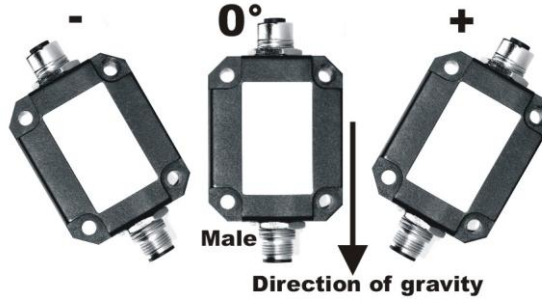
Transfer characteristic



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Rotation in vertical plane.
Lateral tilt sensitivity error:
$\pm 0,03^\circ$ lateral tilt (typ.)
Max. lateral tilt: 45°

Measurement orientation



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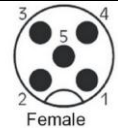
Connection

Wire / pin coding

Connectivity (length $\pm 10\%$)

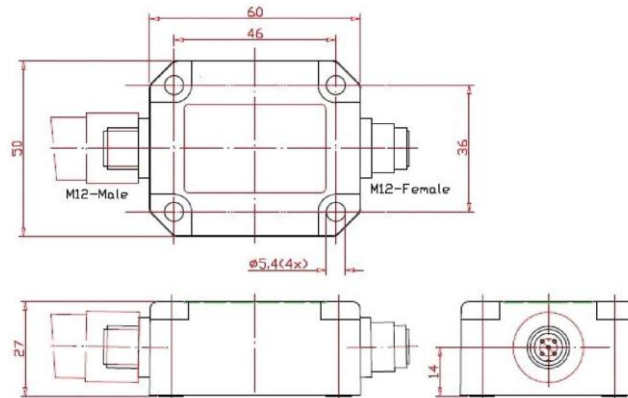
M12 connectors: 1x male + 1x female (internal T-junction) (5 pins, A-coding) (CiA303 V1.8.0)
No bus termination inside. A CANbus always has to be terminated properly.

Pin 1: Shield
Pin 2: Vcc
Pin 3: Gnd & CAN_GND
Pin 4: CAN_H
Pin 5: CAN_L



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Mechanical dimensions (indicative only)



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Center function, CAN-manual, EDS-file

Centering can be done to eliminate mechanical offsets. (can be done by CAN object 300Fh)
The current sensor position will be stored as the new Center position in the internal Eeprom.

A CAN-manual is available at www.dis-sensors.com, see 'downloads'

EDS-file (CiA306 V1.3.0) is available at www.dis-sensors.com, see 'downloads'

As this device is accelerometer-based the sensor is inherent sensitive for accelerations/vibrations.
Application specific testing must be carried out to check whether this sensor will fulfill your requirements.