QG series



QG65N-KDXYh-030-CAN-C(F)M

Inclination sensor 2 axis horizontal mounting

Programmable device Interface: CANopen

Parameters programmable by CANopen object dictionary

> Measuring range ± 30°

Housing	Reinforced p
Dimensions (indicative)	
Mounting	Included: 4x
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 messages TPDO1 event time Sync mode Heartbeat Programming options Output format Filtering	
Boot time	
Programming options	

QG65N CAN series



General specifications 11543/11545, 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) (optional: 2x Ø4mm positioning pins replacing 2x M5x25 mm)
IP67
0 - 95% (non condensing, housing fully potted)
approx. 110 gram
8 - 30 V dc
Yes
≤ 50 mA
-40 +85 °C
-40 +85 °C
± 30°
Yes (CANout $0 = 0^{\circ}$), range: $\pm 5^{\circ}$
0 - 20 Hz
overall 0,15° typ.
$< \pm 0.05^{\circ}$ typ. (< $\pm 0.1^{\circ}$ max.) after centering
< ± 0,1° typ. (< ± 0,2° max.)
not applicable
0,05°
± 0,01°/K typ.
10.000 g
According to ISO 11898-1 & ISO 11898-2 (also known as CAN 2.0 A/B)
CANopen protocol: EN 50325-4 (CiA 301 v4.0 and v4.2.0)
125 kbit/s (default, range 50/125/250/500/1000 kbit/s) 01h (range: 01h - 7Fh) TPDO1: 181h (for Node ID=01h) 50 ms (default, range 10-32767 ms) On/off (default: off) On/off (default: off) Baudrate, Node Id, Event time, Sync mode, Heartbeat, Output format Integer: -3000 to +3000 (PDO1:X=byte2,1;Y=byte4,3) Output filter disabled
<1s
by CANopen object dictionary (CAN parameters, filtering)

QG series



QG65N-KDXYh-030-CAN-C(F)M



QG series





E4ready, CAN-manual, EDS-file, Ordering codes

This product is E4ready and meets Automotive EMC requirements

A CAN-manual (Ftype), an EDS-file (Ftype) and a declaration of conformity are available at www.dissensors.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 fulfil your requirements.

Ordering codes:

M12 Male: QG65N-KDXYh-030-CAN-CM, 11543 M12 Male & Female: QG65N-KDXYh-030-CAN-CFM, 11545