EC-SNR-ANG-G360-H SINGLE AXIS INCLINOMETER WITH GYROSCOPE

DESCRIPTION

Absolute single axis (roll) inclinometer with combined gyroscope and accelerometer.

OPERATION

Signal output is linearly proportional to the angle and highly insensitive to high shock, acceleration and random vibrations. The gyroscope allows a fast measure of the angle without the need of the heavy filtering which is typical of plain accelerometer-based devices.

With a measurement range of ±180° (360°) this device is designed to be connected in a CANbus network (J1939 or CANOpen). It is well-suited for self-levelling applications of systems needing a precise dynamic response and high accuracy.

FEATURES

- · Supply line is protected against reversed polarity and load dump.
- CAN Bus line is protected against short circuits to GND and battery voltage.
- Microprocessor based, with dedicated Kalman filters.
- Vibration and shock resistant.
- Combination of gyroscope and accelerometer.
- Safety requirements:

the single device designed for systems having PLr = c easy assembling of dual device for systems having PLr = d

Electro Magnetic Compatibility (EMC): EN 61000-6-2 (Immunity) EN 61000-6-3 (Emissions)

| SPECIFICATIONS | |
|--------------------------|-------------------------|
| Operating voltage: | 8 ÷ 32 VDC |
| Max current consumption: | 70 mA @ 12V |
| CANbus physical layer: | ISO 11898, 250 kbit/s |
| | (adjustable bus speed) |
| CANbus protocol: | J1939 (option: CANOpen) |
| Max working angle | ±180° |
| Resolution: | 0.01° |
| Stability: | 0.2° @ 25°C |
| Dynamic: | 125°/s |
| Operating temperature: | -40°C / +105°C |
| Degree of protection: | IP 68 |
| Connector type: | Deutsch DT04-4P or M12 |
| Fixing screws included: | n.4 - M5x20 |
| Weight: | 120 g (screws included) |

APPLICATIONS

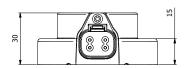
- · 12 VDC and 24 VDC systems.
- Automatic basket self levelling for aerial platforms, agricoltural machines and lift equipment.
- Automatic bucket self levelling for wheel loaders.

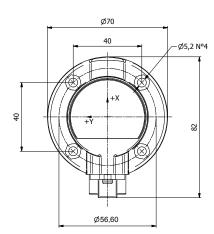
ORDERING CODE

20.0401.043 with Deutsch connector 20.0401.044 with M12 connector



DIMENSIONS





CONNECTIONS





Deutsch DT04-4P

1 +VBATT 2 GND

3 CAN-H

4 CAN-L

M12

WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.