EC-SNR-ANG-S9090-H J1939 SINGLE AXIS INCLINOMETER - CANBUS INTERFACE

DESCRIPTION

Absolute single axis inclinometer sensor based on earth's gravity.

OPERATION

Signal output is linearly proportional to the tilt angle to the ground. With a measurement range of ±90° this device is designed to be connected in a CANbus J1939 network (CANOpen optional). It is normally used to control the inclination of a mechanical structure respect to the earth line (e.g. a crane's boom).

FEATURES

- Supply line is protected against reversed polarity and load dump.
- Outputs are protected against short circuits to GND and supply.
- Microprocessor based.
- Vibration and shock resistant.
- Anti-debouncing software filter.
- Compatible with safety requirements:
  PL = c
  PL = d when two inclinometers are installed
- Electro Magnetic Compatibility (EMC): EN 61000-6-2 (Immunity)
  EN 61000-6-3 (Emissions)

SPECIFICATIONS

Operating voltage:	8-32 VDC
Max current consumption:	40 mA
CANbus physical layer:	ISO 11898, 250 kbit/s
CANbus protocol:	J1939
Max working angle for each axis:	±90°
Resolution:	0.25°
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)

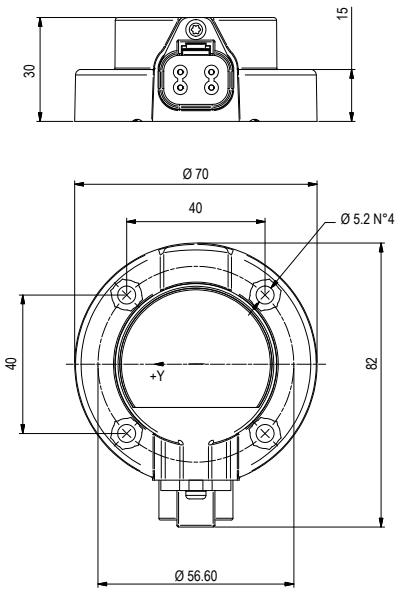
APPLICATIONS

- 12 VDC and 24 VDC systems.
- Inclination sensor for telescopic or articulated cranes, and aerial platforms.
- Load and moment limiting systems.

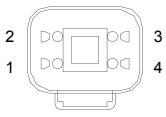
ORDERING CODE

20.0401.047 with Deutsch connector
20.0401.048 with M12 connector

DIMENSIONS

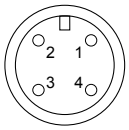


CONNECTIONS



Deutsch DT04-4P

1 +VBATT
2 GND
3 CAN-H
4 CAN-L



M12

1 +VBATT
2 GND
3 CAN-H
4 CAN-L

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