## EC-SNR-ANG-D3030-H DUAL AXIS INCLINOMETER (TILT DEVICE)

### DESCRIPTION

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

### OPERATION

Signal outputs are linearly proportional to the tilt angle to the ground. With a measurement range of ±30° this device provides a 0.5 to 4.5 VDC output signal over its range with a nominal 2.5 VDC at 0 degree. It is normally used to control the planarity of chassis or mechanical structure respect to the earth line.

### 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.
- CE certification.
- Electro Magnetic Compatibility (EMC): EN 61000-6-2 (Immunity)
  EN 61000-6-3 (Emissions)

### SPECIFICATIONS

| | |
|---|---|
| Operating voltage: | 8.5÷30 VDC |
| Max current consumption: | 20 mA |
| Output signal: | 0.5÷2.5÷4.5 VDC |
| Max current output: | 10 mA |
| Max working angle for each axis: | ±30° |
| Resolution: | 0.10° |
| 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) |

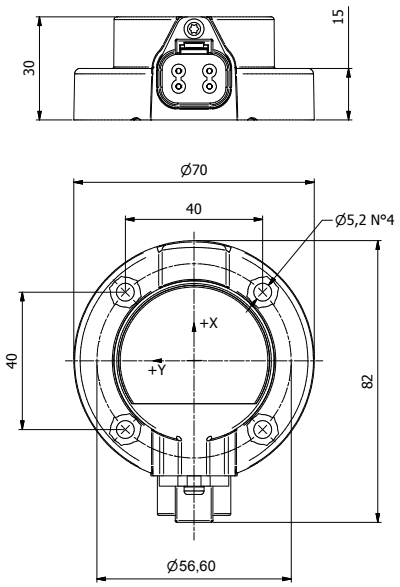
### APPLICATIONS

- 12 VDC and 24 VDC systems.
- Automatic self levelling system for trucks, agricoltural machines and lift equipment.
- Vehicle tilt monitoring.

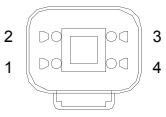
### ORDERING CODE

**20.0401.012/A** with Deutsch connector
**20.0401.019/A** with M12 connector


### DIMENSIONS

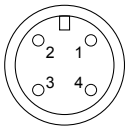



### CONNECTIONS




Deutsch DT04-4P

**1** +VBATT
**2** GND
**3** OUTPUT Y AXIS
**4** OUTPUT Y AXIS




M12

**1** +VBATT
**2** GND
**3** OUTPUT X AXIS
**4** OUTPUT Y AXIS





Via Malavolti, 36 - 41122 Modena - ITALY - Phone +39 (059) 254895 - Fax +39 (059) 253512 - mail: tecnord@tecnord.com - **www.tecnord.com**