

DQG-Series Inclinometer

Dual axis inclinometer
Measurement range $\pm 25^\circ$
Voltage output signal



The **DQG-Series** is a small inclinometer based on dual axis tilt sensor for horizontal mounting, which works based on the conductivity principle. This microprocessor controls the inclinometer with a linearized and temperature compensated angle output signal. The unit has metal housing and exhibits an 8...30VDC power supply.

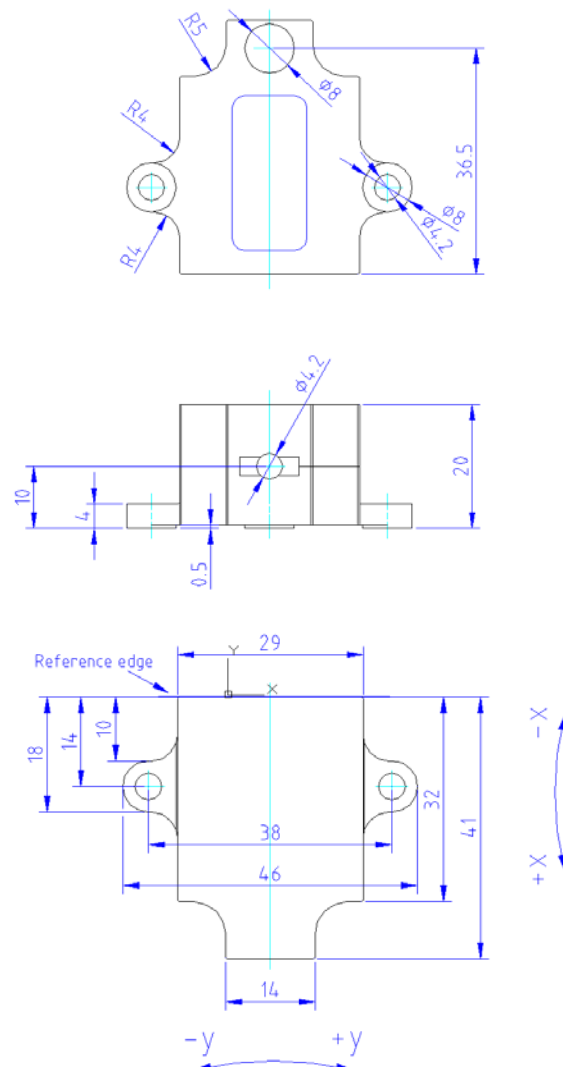
FEATURES

- Robust IP 66 housing
- Cable integrated
- Voltage output signal
- Temperature compensated
- Small size
- Fast response time
- Easy to handle

APPLICATIONS

- Alignment and level control
- Mobile and stationary cranes
- Man lift
- Forklift truck
- Harvester
- Vehicle applications

dimensions [mm]



DQG-Series Inclinator

performance specifications

PARAMETERS

| | Conditions | Min | Type | Max | Unit |
|-------------------------------------|---------------------|-----|--------------|-----|------|
| Measurement range | | -25 | | +25 | ° |
| Sensitivity | | | 80 | | mV/° |
| Offset | | | 2.5 | | V |
| Initial Offset | Ta = 25°C | | ±0.2 | | ° |
| Offset temperature drift error | Ta = 0°C...+50°C | | ±0.1 | | ° |
| | Ta = -40°C... +85°C | | ±0.5 | | ° |
| | Ta = 0°C...+50°C | | ±0.5 | | % |
| Sensitivity temperature drift error | Ta = -40°C... +85°C | | ±1.0 | | % |
| | | | 0.1 | | ° |
| Resolution | | | 0.1 | | ° |
| Output signal | to GND | 0.3 | | 4.7 | VDC |
| Power supply | | 8 | | 30 | VDC |
| Current consumption | | | 10 | | mA |
| Operation temperature range | | -40 | | +85 | °C |
| Storage temperature range | | -40 | | +85 | °C |
| Weight | | | 40 | | g |
| Cable, pigtail | | | 500 | | mm |
| Dimensions | W x D x H | | 41 x 46 x 20 | | mm |

Terminal Connections

| Pin | Name | Description | Type | Color |
|-----|------|-----------------------------------|--------|--------|
| 1 | YOut | Y-axis output signal | output | Green |
| 2 | XOut | X-axis output signal | output | Brown |
| 3 | GND | negative power supply, ground | supply | Yellow |
| 4 | Vcc | positive power supply +8...+30VDC | supply | White |

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ordering info

| PART NUMBER | UNIT | SHORT DESCRIPTION |
|-----------------|----------------|--|
| G - NSDQL - 004 | NS-25/DQG2-XUA | Range +/-25°, Vcc +8...+30VDC, output +0.3...+4.7VDC |