

# NS-25/DQG2-XUA Inclinometer

Dual Axis Inclinometer  
Measurement Range  $\pm 25^\circ$   
Voltage Output Signal

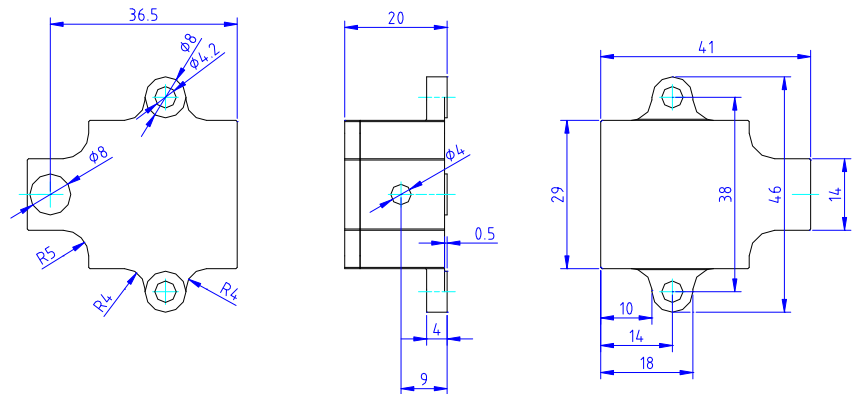


The **NS-25/DQG2-XUA** is a small inclinometer based on dual axis tilt sensor, which works based on the conductivity principle. This microprocessor controls the inclinometer with a linearized and temperature compensated angle output signal. The unit has metal housing and exhibits a 7...30VDC power supply.

dimensions [mm]

## 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

## 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		°
Sensitivity temperature drift error	Ta = 0°C...+50°C		±0.5		%
	Ta = -40°C... +85°C		±1.0		%
Resolution			0.1		°
Output signal	to GND	0.3		4.7	VDC
Power supply		7		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	Cable color
1	Vcc	positive power supply +8...+30VDC	supply	White
2	XOut	X-axis output <sup>(2)</sup>	output	Brown
3	YOut	Y- axis output <sup>(2)</sup>	output	Green
4	GND	negative power supply, ground	supply	Yellow

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## ordering info

PART NUMBER	UNIT	SHORT DESCRIPTION
G - NSDQL - 004	NS-25/DQG2-XUA	Range +/-25°, Vcc +7...+30VDC, output +0.3...+4.7VDC