

DQG-Series Inclinometer

.... the first choice in precision

Dual axis inclinometer

Measurement range +/-25°

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.

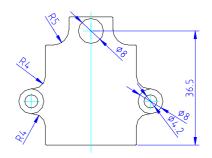
FEATURES

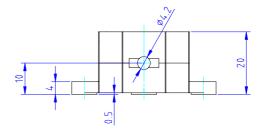
- Robust IP 66 housing
- Cable integrated
- Voltage output signal
- Temperature compensated
- Small size
- Fast response time
- Easy to handle

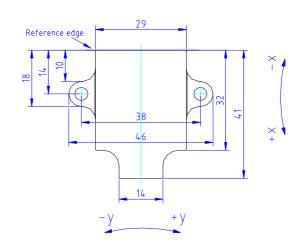
APPLICATIONS

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

dimensions [mm]









DQG-Series Inclinometer

performance specifications

PARAMETERS

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

Terminal Connections

Pin	Name	Description	Туре	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

ordering info

PART NUMBER UNIT SHORT DESCRIPTION

G - NSDQL - 004 NS-25/DQG2-XUA Range +/-25°, Vcc +8...+30VDC, output +0.3...+4.7VDC