

DQL-Series Inclinometer

Dual axis inclinometer
Measurement range $\pm 25^\circ$
Digital output signal via I2C



The **DQL-Series** is a small inclinometer board with a dual axis tilt sensor, which works on the conductivity principle. An integrated microcontroller is used to process the sensor signals and apply temperature compensation. The system offers a simple and robust digital two wire interface similar to I²C.

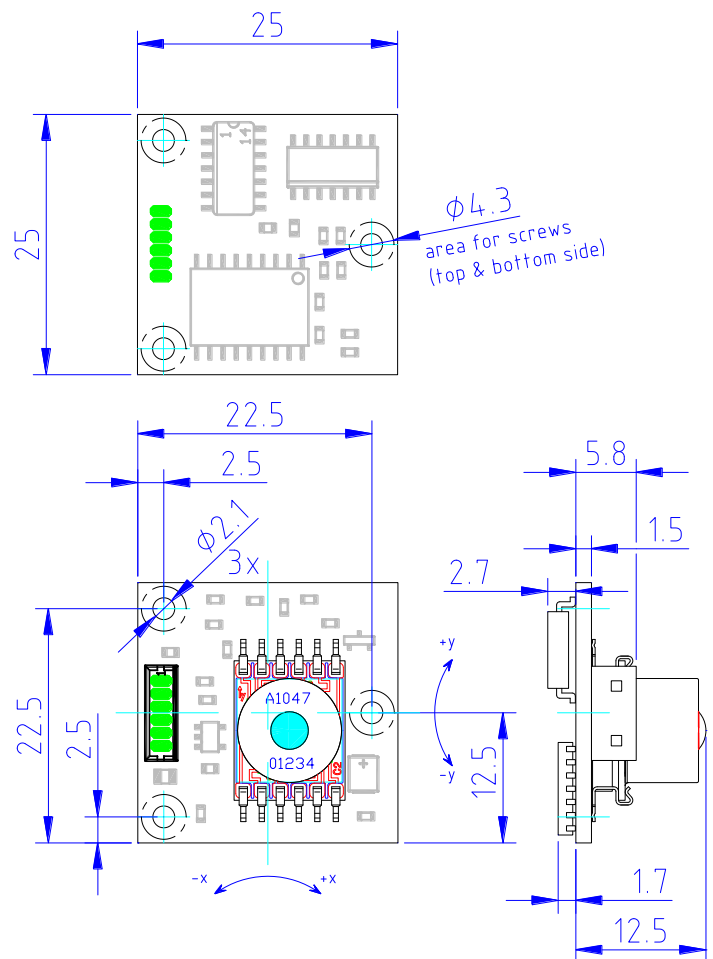
FEATURES

- Small size
- Full calibrated
- I²C like two wire output interface
- Temperature compensated
- Fast response time
- Easy to handle

APPLICATIONS

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

dimensions [mm]



performance specifications

PARAMETERS

	Conditions	Min	Type	Max	Unit
Measurement range		-25		+25	°
Offset			0.15		°
Accuracy	Ta = 25°C		±0.1		°
Accuracy	Ta = -25°C... +85°C		±0.3		°
Resolution			0.02		°
Output signal I2C	Baud rate	10		50	KBit/s
Power supply	Vcc	4.75	5	5.25	VDC
Current consumption			10		mA
Operation temperature range		-25		+85	°C
Storage temperature range		-40		+85	°C
Weight			10		g
Dimensions	W x D x H		25 x 25 x 16		mm

Pinning:

Pin	Name	Description	Type
1	Vcc	Positive power supply	Supply, Input
2	GND	Ground potential	Supply, Input
3	NC	-	-
4	SCL	I ² C like Clock	Input
5	NC	-	-
6	SDA	I ² C like Data	Input / Output

For more details please use the product specification / application note / instruction manual.

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ordering info

PART NUMBER	UNIT	SHORT DESCRIPTION
G-NSDQL-001	NS-25/DQL2-IXA	Range +/-25°, Vcc +5VDC, output signal via I2C
G-NSMIS-037	Connector,cable	Connector, 6 pin, 30 cm wire for NS-25/DQL2-IXA