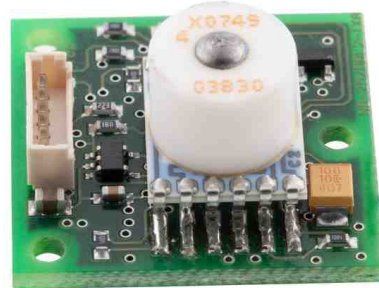


# DQL-Series Inclinometer

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 I<sup>2</sup>C.

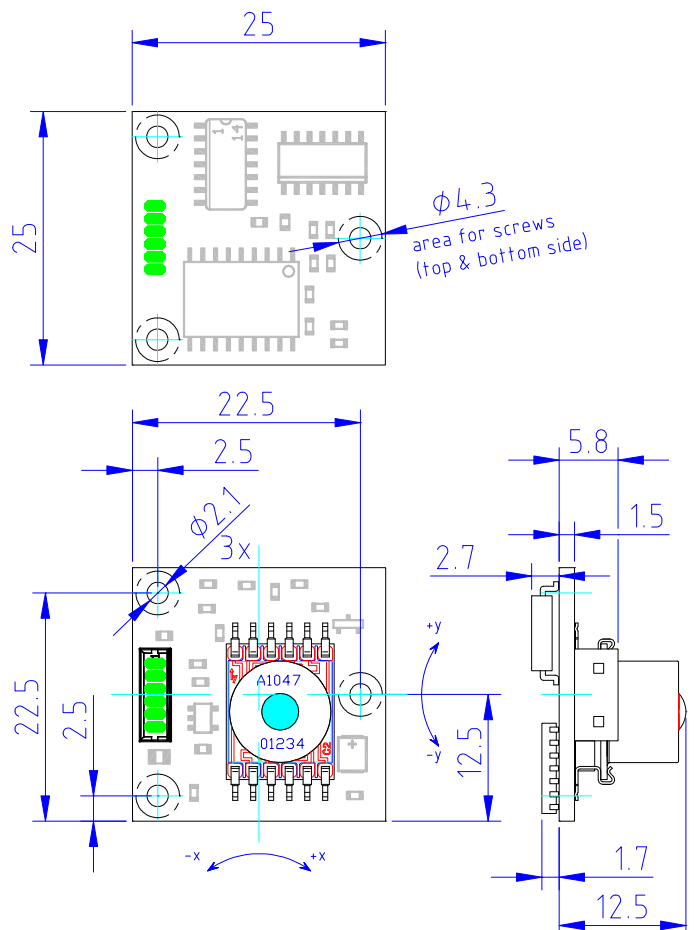
## FEATURES

- Small size
- Full calibrated
- I<sup>2</sup>C 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 <sup>2</sup> C like Clock	Input
5	NC	-	-
6	SDA	I <sup>2</sup> C like Data	Input / Output

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

The information in this sheet has been carefully reviewed and is believed to be accurate; however, no responsibility is assumed for inaccuracies. Furthermore, this information does not convey to the purchaser of such devices any license under the patent rights to the manufacturer. Measurement Specialties, Inc. reserves the right to make changes without further notice to any product herein. Measurement Specialties, Inc. makes no warranty, representation or guarantee regarding the suitability of its product for any particular purpose, nor does Measurement Specialties, Inc. assume any liability arising out of the application or use of any product or circuit and specifically disclaims any and all liability, including without limitation consequential or incidental damages. Typical parameters can and do vary in different applications. All operating parameters must be validated for each customer application by customer's technical experts. Measurement Specialties, Inc. does not convey any license under its patent rights nor the rights of others.

## 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