DQL-Series Inclinometer



Dual axis inclinometer Measurement range +/-25° 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.

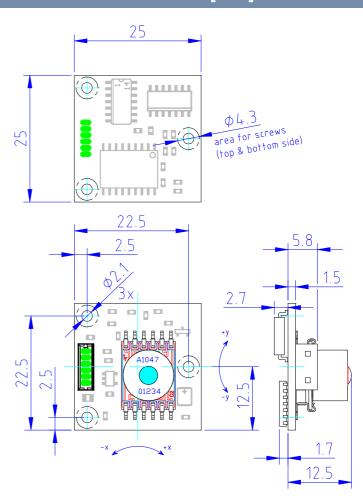
FEATURES

- 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]



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performance specifications

PARAMETERS

	Conditions	Min	Туре	Max	Unit
Measurement range		-25		+25	0
Offset			0.15		0
Accuracy	Ta = 25 ℃		±0.1		0
Accuracy	Ta = -25℃ +85℃		±0.3		0
Resolution			0.02		0
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	℃
Storage temperature range		-40		+85	℃
Weight			10		g
Dimensions	WxDxH		25 x 25 x 16		mm

Pinning:

Pin	Name	Description	Туре		
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	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		

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