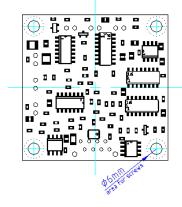
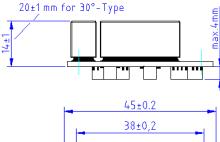
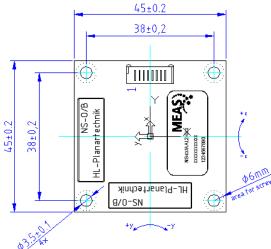




Dimensions [mm]







AAL-SERIES INCLINOMETER

SPECIFICATIONS

Dual axis inclinometer

Measurement range
+/-2 to +/- 30°

Analog output signal

The AAL-Series conductive inclination sensor offers a full calibrated inclination sensor module on a PCB. The sensor provides voltage output depending on the inclination angle and related to the specific axis, as well as a voltage based temperature output signal. An optional integrated e2-prom contains data on the characteristic curve resp. calibration data. This allows for a high integration into a specific application with excellent performance regarding accuracy and long-term stability.

FEATURES

- PCB level
- High accuracy
- Temperature compensated
- High resolution
- Analog output signal
- e2-prom on board

APPLICATIONS

- Building control
- Weighing systems
- ◆ Truck chassis levelling
- Mobile and stationary cranes
- Lift platforms
- Road construction machines
- Vehicle applications

PARAMETERS

	Conditions	Min	Туре	Max	Unit
Measurement range (1)		-2 (-30)		+2 (+30)	0
Resolution (2)		0.001		0.01	0
Accuracy (absolute) (3)	Ta = 0°50°C	0.08	0.1	0.3	0
Tempertur drift offset			8		mV
Non-linearity			1.5		%[FS]
Cross sensitivity			0.15		%[FS]
Voltage output signal		0.3		4.7	٧
Current consumption			15		mA
Power supply		4.75	5	5.25	VDC
Operation temperature range		-40		+85	°C
Storage temperature range		-40		+85	°C
Weight			20		g
Dimensions	WxDxH	45	45 x 45 x 14(20) mm		

⁽¹⁾ measurement ranges available: +/-2°, +/-5°,+/-10°,+/-15°,+/-30° (2),(3) depend on measurement range

PINNING:

Pin	Name	Description	Туре	
1	Vcc	Positive power supply +5VDC	Supply, Input	
2	Vref	Reference potential +2.5VDC	Output	
3	GND	Ground (negative supply voltage)	Supply, Input	
4	Out X	Output signal X axis	Output	
5	Out Y	Output signal Y axis	Output	
6	Out T	Output Signal Temperature in use Output		
7	Data	I2C like bus for EEPROM	Input/Output	
8	Clock	I2C like bus for EEPROM Input		

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

ORDERING INFORMATION

PART NUMBERING	UNIT	SHORT DESCRIPTION
G-NSAAL-006 G-NSAAL-017 G-NSAAL-003 G-NSAAL-010 G-NSAAL-018 G-NSAAL-019	NS- 2/AAL2-UDD NS- 5/AAL2-UDD NS-10/AAL2-UFG NS-10/AAL2-UDG NS-15/AAL2-UDG NS-30/AAL2-UDN	Range +/-2°, Vcc +5 VDC, voltage output , T-signal, e²-prom Range +/-5°, Vcc +5 VDC, voltage output , T-signal, e²-prom Range +/-10°, Vcc +5 VDC, voltage output Range +/-10°, Vcc +5 VDC, voltage output , T-signal, e²-prom Range +/-15°, Vcc +5 VDC, voltage output , T-signal, e²-prom Range +/-30°, Vcc +5 VDC, voltage output , T-signal, e²-prom
G-NSMIS-004	Connector,cable	Connector, 8 pin, 20 cm ribbon cable for AAL-series

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