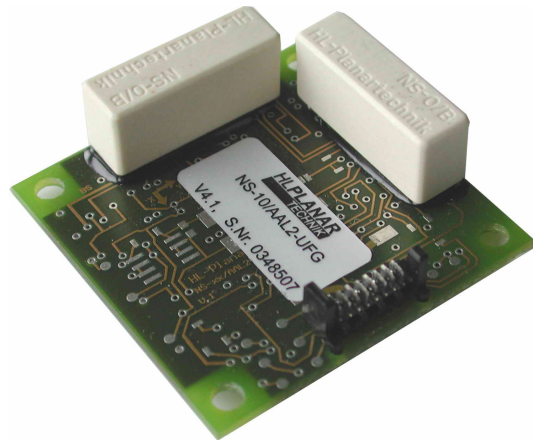


AAL2-Series Inclinometer

Dual Axis Inclinometer
Measurement Range
+/-2 up to +/- 30° with Analog
Output Signal



The **AAL2-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.

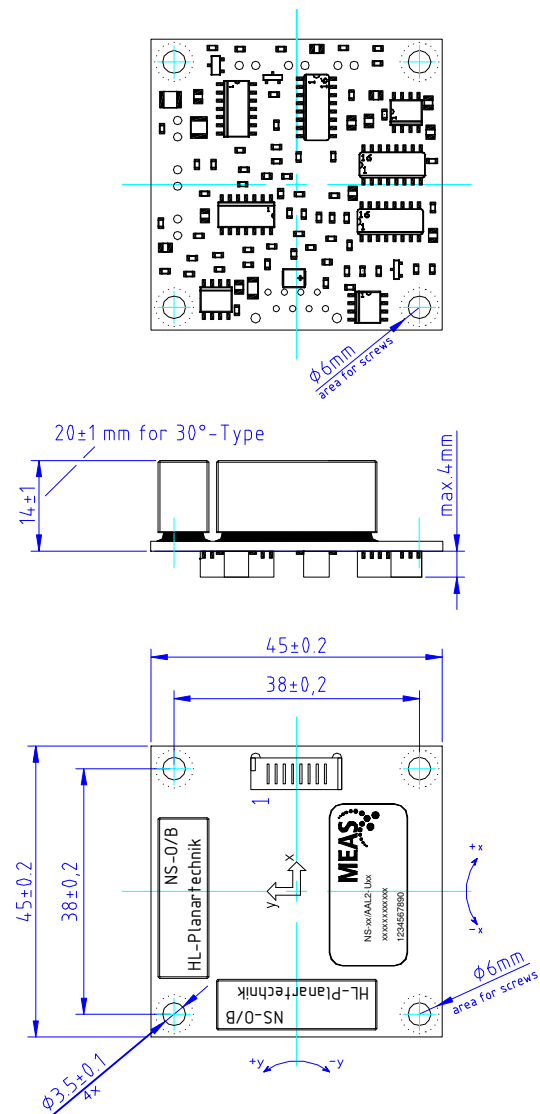
FEATURES

- 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

dimensions [mm]



AAL2 - Series Inclinometer

performance specifications

PARAMETERS

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

(1) measurement ranges +/-2°, +/-5°, +/-10°, +/-15°, +/-30° available

(2),(3) depend on measurement range

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ordering info

PART NUMBERING	UNIT	SHORT DESCRIPTION
G-NSAAL-006	NS- 2/AAL2-UDD	Range +/-2°, Vcc +5 VDC, voltage output , T-signal, e ² -prom
G-NSAAL-017	NS- 5/AAL2-UDD	Range +/-5°, Vcc +5 VDC, voltage output , T-signal, e ² -prom
G-NSAAL-003	NS-10/AAL2-UFG	Range +/-10°, Vcc +5 VDC, voltage output
G-NSAAL-010	NS-10/AAL2-UDG	Range +/-10°, Vcc +5 VDC, voltage output , T-signal, e ² -prom
G-NSAAL-018	NS-15/AAL2-UDG	Range +/-15°, Vcc +5 VDC, voltage output , T-signal, e ² -prom
G-NSAAL-019	NS-30/AAL2-UDN	Range +/-30°, Vcc +5 VDC, voltage output , T-signal, e ² -prom