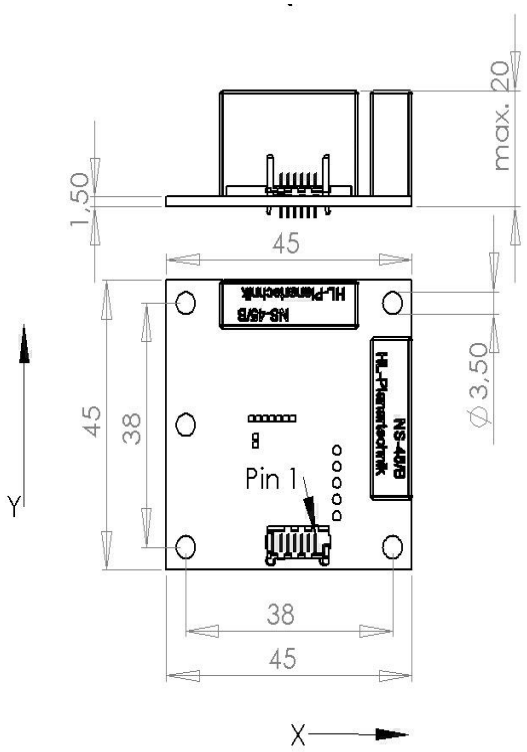
DPL2/DPN2-Series Inclinometer

Dual Axis Inclinometer
Measurement Range
±2 up to ±30°
With Digital Output Signal

The DPL2/DPN2-Series Inclinometer offers a dual axis conductive inclinometer as a PCB level. This inclinometer provides the user modern microprocessor technology with an active linearization and temperature compensation. This inclinometer is full calibrated and absolute plug and play compatible.

dimensions



FEATURES

- PCB Level
- High Accuracy
- Absolutely Low Noise
- High Resolution
- Temperature Compensated
- High Output Data Transfer
- Digital Output Signal via RS232/TTL

APPLICATIONS

- Building Control
- Weighing Systems
- Truck Chassis Leveling
- Mobile and Stationary Cranes
- Lift Platforms
- Road Construction Machines
- Vehicle Applications

DPL2/DPN2-Series Inclinometer

performance specifications

PARAMETERS

	Conditions	Min	Type	Max	Unit
Measurement Range (1)		-10		+10	°
Measurement Range (2)		-15		+15	°
Resolution		0.001			°
Accuracy (absolute)	Ta = 0°…50°C, φ < |10°|		0.1		°
Accuracy (absolute)	Ta = -40°…+85°C		0.3		°
Initial Offset	Ta = 25°C		±0.15		°
Offset Temperature Drift Error	Ta = -25°C…+75°C		0.05		°
	Ta = -40°…+85°C		0.1		°
Output Data Transfer Time			100		ms
Noise RMS			0.003		°
Current Consumption			10		mA
Power Supply (1)			5		VDC
Power Supply (2)		7		30	VDC
Operation Temperature Range		-40		+85	°C
Storage Temperature Range		-55		+85	°C
Weight			20		g
Dimensions	W x D x H		45 x 45 x 14 (20)		mm

(1) Valid for units NS-10/DPL2-UXG, NS-15/DPL2-UXG
(2) Valid for units NS-10/DPN2-RXG, NS-15/DPN2-RXG

ordering info

PART NUMBERING	UNIT	SHORT DESCRIPTION
G-NSDPL-004	NS-10/DPL2-UXG	Range ±10°, Vcc+5 VDC, output TTL-level (UART)
G-NSDPN-005	NS-10/DPN2-RXG	Range ±10°, Vcc+7…30 VDC, output RS232
G-NSDPL-003	NS-15/DPL2-UXG	Range ±15°, Vcc+5 VDC, output TTL-level (UART)
G-NSDPN-006	NS-15/DPN2-RXG	Range ±15°, Vcc+7…30 VDC, output RS232

Units with measurement range of ±2°, ±5° and ±30° are available soon. Please do not hesitate to contact us.

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