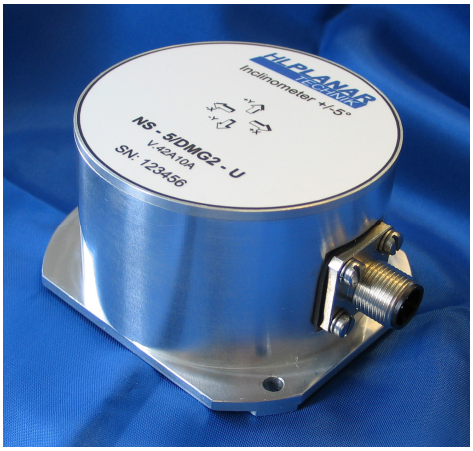
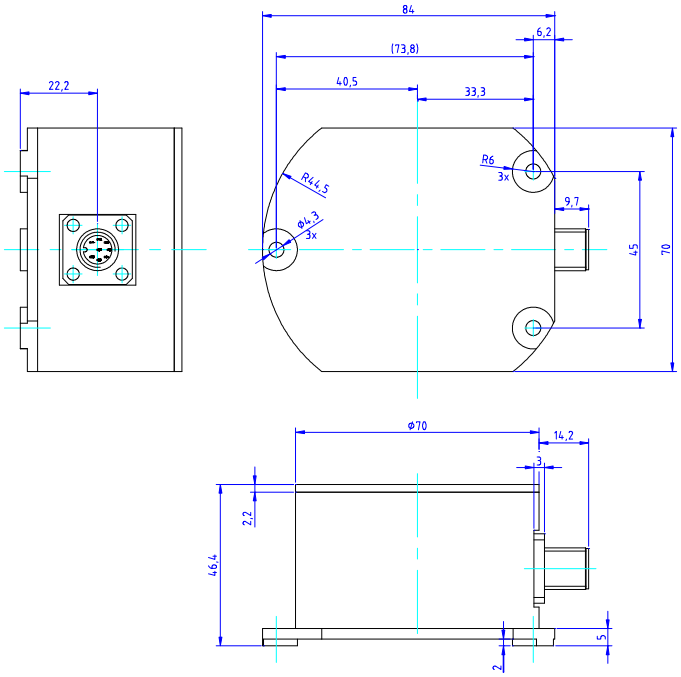
D-Series Inclinometer

Dual Axis Inclinometer
Measurement Ranges
+/-5°, +/-15°, +/-30°
Digital and Analog Output



The D-Series of conductive inclinometers offers modern SMD-technology in an environmentally protected and robust aluminium housing. The inclinometer achieves high accuracy over a wide temperature range. The fast microcontroller works with a linearization and temperature compensation routines. This full calibrated inclinometer is available with analog, digital or switching output signals.

dimensions



FEATURES

- High Accuracy
- Robust Metal Housing
- High Resolution
- EMC Protected
- CE Approved
- Protection Class IP 67
- Rugged Male Connector
- Programmable Digital Filtering to Minimized Influences from Shock and Vibration

APPLICATIONS

- Building Control
- Road Construction Machines
- Wind Power
- Weighing Systems
- Mobile and Stationary Cranes

D-Series Inclinometer

performance specifications

PARAMETERS

	Conditions	Min	Type	Max	Unit
Measurement range		-5 (-15, -30)		+5 (+15, +30)	°
Resolution		0.001			°
Accuracy digital,analogue (absolute)	Ta = 25°C		0.04		°
Accuracy digital,analogue (absolute)	Ta = -40°C …+85°C		0.15	(0.3, 0.8)	°
Offset temperature drift error	Ta = -40°C…+85°C		0.06		°
Output data transfer time (1)		0.1	10	16	Hz
Baud rate (1)			9.6		kB
Frequence response			2	3	Hz
Noise RMS			0.001		°
Current consumption			30	40	mA
Power supply		10		30	VDC
Operation temperature range		-40		+85	°C
Storage temperature range		-40		+85	°C
Weight			290		g
Dimensions	W x D x H		84 x 70 x 46		mm

(1) programmable

ordering info

PART NUMBERING	UNIT	SHORT DESCRIPTION
G-NSDMG-015	NS-5/DMG2-U	Range +/-5°,Vcc 10…30VDC,output RS232,voltage
G-NSDMG-017	NS-5/DMG2-I	Range +/-5°,Vcc 10…30VDC,output RS232,current
G-NSDMG-014	NS-5/DMG2-PWM	Range +/-5°,Vcc 10…30VDC,output RS232,PWM
G-NSDMG-016	NS-5/DMG2-S	Range +/-5°,Vcc 10…30VDC,output RS232,switch
G-NSDMG-019	NS-15/DMG2-U	Range +/-5°,Vcc 10…30VDC,output RS232,voltage
G-NSDMG-021	NS-15/DMG2-I	Range +/-5°,Vcc 10…30VDC,output RS232,current
G-NSDMG-018	NS-15/DMG2-PWM	Range +/-5°,Vcc 10…30VDC,output RS232,PWM
G-NSDMG-020	NS-15/DMG2-S	Range +/-5°,Vcc 10…30VDC,output RS232,switch
G-NSDMG-023	NS-30/DMG2-U	Range +/-5°,Vcc 10…30VDC,output RS232,voltage
G-NSDMG-025	NS-30/DMG2-I	Range +/-5°,Vcc 10…30VDC,output RS232,current
G-NSDMG-022	NS-30/DMG2-PWM	Range +/-5°,Vcc 10…30VDC,output RS232,PWM
G-NSDMG-024	NS-30/DMG2-S	Range +/-5°,Vcc 10…30VDC,output RS232,switch
G-NSMIS-008	connection	2 m cable, straight connector 763-series
G-NSMIS-009	connection	2 m cable, angle 90° connector 763-series
Oher cable length on request		

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