LCH-45 – Inclinometer sensor, dual axis, ±45°, RS232 output





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Features

- Dual Axis, ±45°
- RS232 interface
- Low cost (<£25 for 1kpcs)
- Small size, 46 x 43.5 x 13.5mm
- Sealed to IP65

Product Specification

General

Parameter	Value	Unit

Parameter	Value	Unit
Number of Axis:	2	-
Range	±45	°
Resolution	0.05	°
Accuracy at 20°C	±0.3	°
Output Type	RS232	-
Output Format	38.4, 8, 1, N	-
Technology	MEMS	-
Maximum Zero Bias Error	±0.1	°
Uncompensated Temp Error	0.01	° / °C
Maximum Mechanical Shock	3000 (0.5ms), 10000 (0.1mS)	G
Frequency Response	1	Hz

Electrikal

Parameter	Value	Unit
Supply Voltage (min)	4.9	V
Supply Voltage (max)	15	V
Supply Current	18	mA

Mechanical

Dimension	Value	Unit
Sensor Case Material	Aluminium	-
Connection Style	Cable Gland	-
Cable Length	2	m
Length	43.5	mm
Width	46	mm
Height	13.5	mm
Weight	85	Grams

Environmental

Parameter	Value	Unit
Operational Temperature Range	-40 to 85	°C
Storage Temperature Range	-40 to 85	°C
Sensor Seal Rating	IP67	-

Axis Orientation

Dimensions

Software

- Windows PC Software For Viewing and Logging Inclinometer Data (zip 380 kB)

CAD Files

- 3D Models (all formats) (zip 779 kB)

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