

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

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 Inclinator Data \(zip 380 kB\)](#)

CAD Files

- [3D Models \(all formats\) \(zip 779 kB\)](#)

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