

# MiniSense



The CDL MiniSense product range offers a price breakthrough in marine motion sensing technology. By utilising high accuracy MEMS (Micro- Electro-Mechanical Sensor) technology CDL have achieved significant cost reductions whilst maintaining performance figures that can match sensors costing much more.

The MiniSense can provide high accuracy heave, pitch and roll data as well as having three axis rotational and linear acceleration output that allows complete monitoring of units motion. The unit contains an embedded computer which gives great flexibility over data output formats and is capable of simulating any other sensor output on the market.

The housing is machined from solid marine grade Aluminium (3,000m version) or Titanium (6,000m version). It is also available as a surface unit and an OEM part for a large variety of uses.



## Features:

- Small Size
- High accuracy
- Low cost
- Light weight
- Highly adaptable
- Low Power
- Rugged

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## Product Specification:

### Performance:

Range:		
	Heave	+/- 10m
	Pitch	+/- 90 deg
	Roll	+/- 180 deg

### Bandwidth:

	Heave	0.04 to 40 Hz
	Pitch	0 to 40 Hz
	Roll	0 to 40 Hz

### Dynamic Accuracy:

	Heave	10 cm or 10% whichever is greater
	Pitch	0.5 deg*
	Roll	0.5 deg*

Higher accuracy sensors available upon request

### Static Accuracy:

	Pitch	0.1 deg*
	Roll	0.1 deg*

### Resolution:

	Heave	1 cm
	Pitch	0.01 deg
	Roll	0.01 deg

### Power Requirements:

	Supply voltage	10-36 Vdc
	Current	50mA (at 24V)

### Environment:

	Operating temperature	- 40 to 85°C
	Calibrated temperature	0 to 50°C
	Non operating Shock	2000g (0.5ms)

### Dimensions:

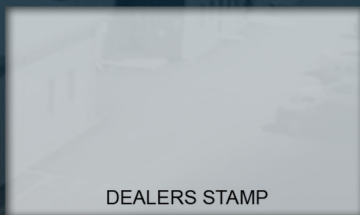
52mm square base x 93 mm high

### Mounting:

4 holes M4 (44mm x 44mm)

\* RMS

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