Uniweigh L Series

Ultra-Low Range
Moment Insensitive Load Cell

Sherborne Sensors
.... the first choice in precision

Introduction

The *Uniweigh* L series load cells have been specifically designed to enable high accuracy gram range forces and loads to be measured whilst rejecting the effects of bending moments that would otherwise reduce the overall accuracy.

The use of high sensitivity strain gauges within the design of the *Uniweigh* load cell provides high signal level and correspondingly high micro-gram resolution.

The *Uniweigh* load cell is provided with a positive overload stop (in compression) to prevent accidental damage.

Applications

- Gram force measurements
- Low force weighing
- Scales
- Bio-mechanical investigations
- Centre of Gravity determination
- The *Uniweigh* L series available in force ranges from 100 grams to 500 grams

Specifications

Standard Ranges	grams	100, 200, 500
Operational mode		Compression/tension
Recommended Excitation Voltage	VDC	10
Maximum Excitation Voltage	VDC	12
Full Scale Output	mV/Volt (nominal)	20
Accuracy	± % Full Scale (max)	0.05
Zero Return	± % Full Scale (max)	0.05
Operating Temperature Range	°C	-20 to +80
Compensated Temperature Range	°C	0 to +60
Thermal Zero Shift	% Full Scale/°C (max)	0.02
Thermal Sensitivity Shift	% Reading/°C (max)	0.02
Input Resistance	Ω (nominal)	700
Output Resistance	Ω (nominal)	350
Overload Capacity	% Full Scale	150
Maximum Side Load	% Full Scale	50
Deflection at Rated Load	mm (max)	0 50
Environmental protection level	IEC529	IP51
Documentation		Individual calibration data sheet

In North America: Email: nasales@sherbornesensors.com
Rest of World: Email: sales@sherbornesensors.com
Website: www.sherbornesensors.com

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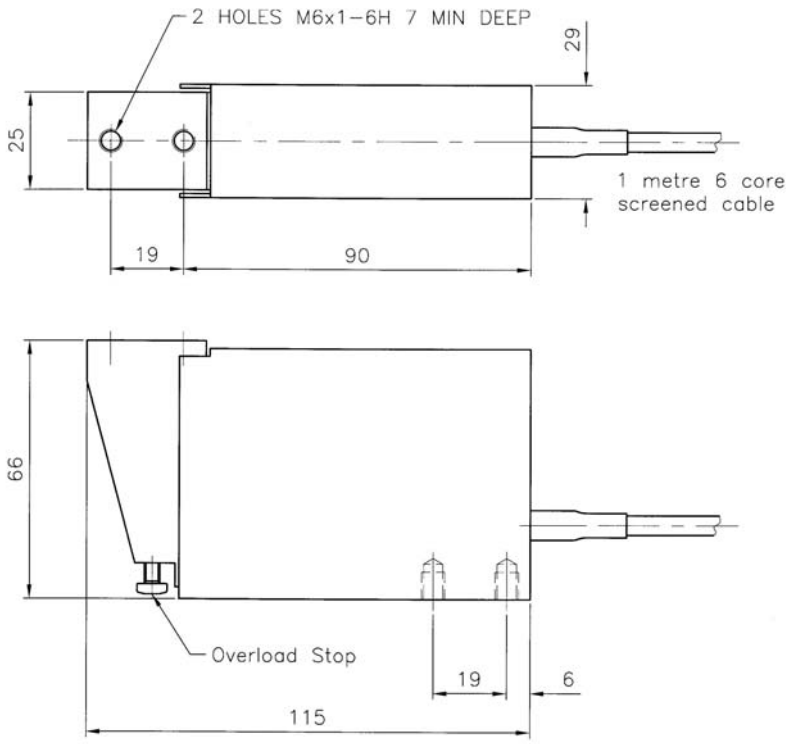
Outline Dimensions



Ordering Information

Order by specifying type number and load range in grams e.g. “Uniweigh – 100g”

In North America: Email: nasales@sherbornesensors.com
Rest of World: Email: sales@sherbornesensors.com
Website: www.sherbornesensors.com