

SPB-4 Aluminium Medium Range Single Point Load Cell

Features

- Ranges 50, 100, 150, 200, 250kg
- Anodised aluminium construction
- Environmentally sealed to IP66
- High accuracy ($<\pm 0.02\%$)
- Suitable for use in platforms, maximum size 400mm x 400mm

Typical Applications

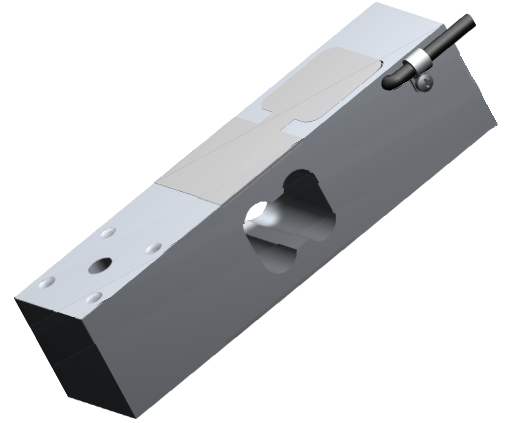
- Platform scales
- Hanging scales
- Web tension measurement
- Single point weighing

Description

The SPB-4 is a medium range anodised aluminium alloy single point load cell, which has been specifically designed for platform weighing applications, although it is equally suited to other weighing and force measurement applications where high accuracy is required.

The SPB-4 is suitable for use in platforms with sizes up to 400mm x 400mm. It is environmentally sealed as standard to IP66.

The SPB-4 series can be supplied on its own or combined with our extensive range of instrumentation to provide a complete load monitoring system.

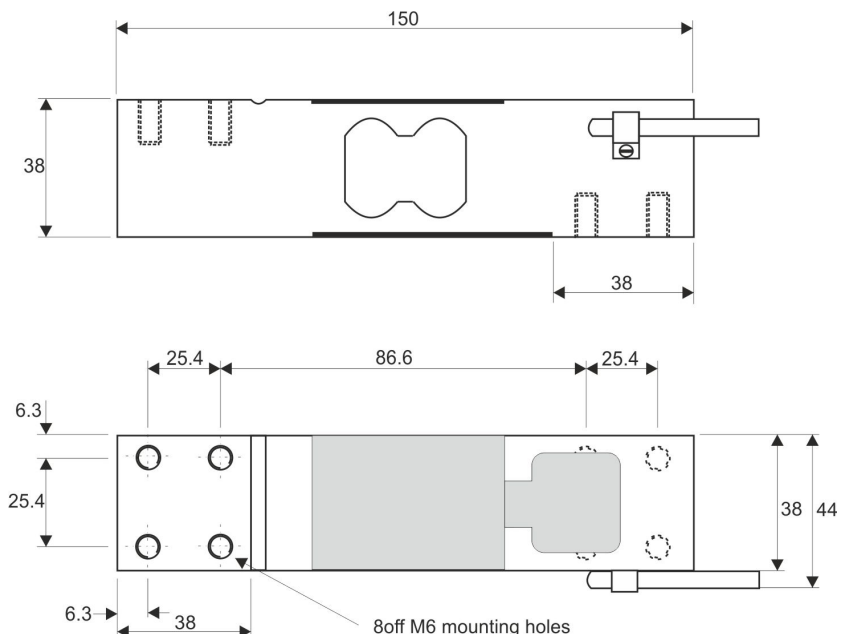


Specification

Rated Load (kg):	50, 100, 150, 200, 250	
Proof Load:	150% of Rated Load	
Ultimate Breaking Load:	300% of Rated Load	
Output:	2.0 mV/V at Rated Load ($\pm 10\%$)	
Accuracy:	$<\pm 0.02\%$ of Rated Load	
Non-Repeatability:	$<\pm 0.01\%$ of Rated Load	
Excitation Voltage:	10vdc recommended, 15vdc maximum	
Bridge Resistance:	415 Ω	
Insulation Resistance:	$>500M\Omega$ @ 100vdc	
Operating Temperature Range:	-20 to +70°C	
Compensated Temperature Range:	-10 to +40°C	
Zero Temperature Coefficient:	$<\pm 0.002\%$ of Rated Load/°C	
Span Temperature Coefficient:	$<\pm 0.001\%$ of Rated Load/°C	
Environmental Protection Level:	IP66	
Connection Type:	PVC screened cable 1.5m long	
Wiring Connections:	Green +ve supply	Black -ve supply
	Blue +ve sense	Brown -ve sense
	Red +ve signal	White -ve signal

Mechanical Dimensions

All dimensions in millimeters



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Due to continual product development, LCM Systems Ltd. reserves the right to alter product specifications without prior notice.

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