



Description

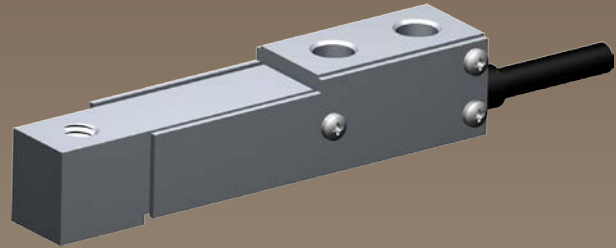
The LCM Systems range of Pioden Transducers has been widely used for many years.

The BF2 is constructed from stainless steel and is available in ranges between 2kg and 50kg.

The BF2 offers an excellent size/performance ratio, at a competitive price. The stainless steel dual cantilever design enables the rejection of off-centre forces, making the first choice in a number of material testing and weighing applications.

LCM Systems can supply the BF2 on it's own or integrated with any of the wide range of strain gauge based instrumentation available from LCM Systems.

BF2 Low Range Dual Cantilever Beam



Features

- Ranges 2kgf to 50kgf
- Small Physical Size
- 1000ohm bridge resistance
- Stainless Steel Construction

Typical Applications

- Material test Machines
- Rheometer Measurement
- Spring Characteristic Profiling
- Friction Testing
- Switch Contact Testing

TYPE: BF2

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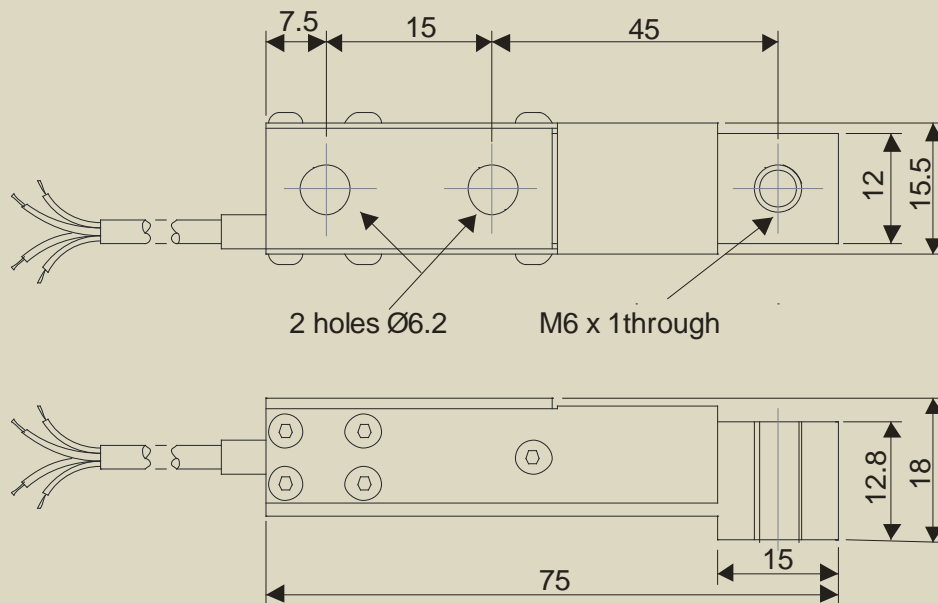
Low Range Dual Cantilever Beam

Specification

Range (FSO)	2, 5, 10, 30, 50kg
Maximum Overload Range	200% with $< \pm 1\%$ calibration shift
Output Sensitivity	2mV/V nominally
Zero Offset	$< \pm 2\%$ FSO
Accuracy	$< \pm 0.1\%$ FSO
Repeatability	$< \pm 0.1\%$ FSO
Excitation Voltage	10vdc recommended, 15vdc maximum
Bridge Resistance	1000 Ω standard
Insulation Resistance:	$> 1000M\Omega$ at 250vdc
Operating Temperature Range	-20°C to +70°C
Compensated Temperature Range	+10°C to +60°C
Zero Temperature Coefficient	$< \pm 0.03\%$ FSO/°C ($< \pm 0.01\%$ FSO/°C optional)
Span Temperature Coefficient	$< \pm 0.03\%$ FSO/°C ($< \pm 0.01\%$ FSO/°C optional)
Environmental Protection Level	IP65
Connection Type	2 metres 4-core screened PVC cable
Wiring Connections:	+ve supply Red -ve supply Blue +ve signal Green -ve signal Yellow
Options Available:	Consult Factory – Many Options and special versions available

Mechanical Dimensions

All dimensions in millimeters



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

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