

Tension and Compression Miniature 'S' Beam **LOAD CELL**

DBBSMM Series



- Capacities 0-1kg to 0-50kg
- Sealed to IP65
- Robust Construction
- Simple Installation
- High Performance
- High Side Load Resistance
- **3 YEAR WARRANTY**

Options Available

High Capacities Available on request

Equivalents to other manufacturers' available

Spherical Rod End Bearings & Load Buttons

Improved Environmental Sealing to IP67

Different Cable Lengths

Rationalised/Standardised Outputs Available

Internal Shunt Calibration facility

DESCRIPTION

The DBBSMM series of miniature S-Beam load cells are designed for force measurement and weighing applications alike. Their very small size and ease of mounting makes them ideal for space-constrained applications where a high accuracy measurement is required.

There are many capacities available within the standard range, between 0-1kg and 0-50kg. Versions are also available in lbf and N (kN) ranges.

There are many options that are available to further enhance the usefulness of this series of load cells and assist the user by simplifying installation.

The DBBSMM has been designed to for use in a wide variety of applications, the more popular being for Feedback Control in Tensile Testing Machines, Hopper and Tank weighing and general Force Measurement Applications. For more arduous applications an IP67 version is available.

As with all Applied Measurements products, the DBBSMM can be supplied with any instrumentation from our extensive range, and be calibrated prior to despatch to give our customers a ready to use system.

Transducer Specialists...

APPLIED MEASUREMENTS LIMITED

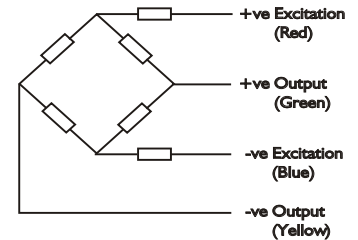
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SPECIFICATION

Wiring Schematic Diagram



CHARACTERISTICS	DBBSMM	UNITS
Rated Capacities:	1, 2, 5, 10, 25, 50	kgf
Rated Output:	2.0 nominal	mV/V
Non-Linearity:	<0.03	±% of Rated Output
Repeatability:	<0.02	±% of Rated Output
Hysteresis:	<0.02	% of Rated Output
Output Symmetry:	<0.10	±% of Rated Output
Zero Balance:	<1.0	±% of Rated Output
Temperature Range Operating:	-20 to +80	°C
Compensated:	0 to +70	°C
Temperature Effect On Output:	<0.005	±% of Applied Load/ °C
On Zero:	<0.005	±% of Rated Output/ °C
Safe Overload:	150	% of Rated Capacity
Ultimate Overload:	200	% of Rated Capacity
Excitation Recommended:	10	Volts AC or DC
Maximum:	15	Volts AC or DC
Input Impedance:	375	Ohms
Output Impedance:	350	Ohms
Insulation Impedance:	>500	Megaohms
Construction:	Aluminium Alloy	
Environmental Protection:	IP65 (IP67 optional)	
Cable:	2 Metre 4 Core Screened	

All dimensions in mm

