

Shear Beam Load Cell

This shear beam load cell is designed for precise weight measurement. It utilizes a shear beam structure to ensure accurate and reliable performance, making it suitable for industrial scales and force measurement systems.



Overview

High-Precision Shear Beam Load Cell

The BM-LS-MF1 is a high-accuracy shear beam load cell featuring a unique dual-end support and center-forced structure. Designed for reliability in demanding industrial weighing applications, it utilizes a pressure head and steel ball mechanism for automatic recovery and core correction. Its robust alloy steel construction and IP68 hermetic sealing ensure stable performance even in adverse or explosive environments.

Key Performance Metrics

Performance Highlights

1000 kg
Rated Capacity

2 mV/V
Sensitivity

150 %FS
Safe Overload

Technical Specifications

Input Impedance	385 Ω
Output Impedance	350 Ω
Insulation Resistance	5000 M Ω
Excitation Voltage	5 [±] 15V
Ultimate Overload	200 %FS

Environmental & Safety

Protection Grade	IP68 • IP65
Operating Temperature	-20 to +65
Explosion-proof Symbol	ExibaBT6

Construction

Elastic Body Material	Alloy Steel
Sealing Type	Hermetically sealed with cavity cap welding

Applications

Ideal Applications

- Industrial scales
- Platform scales
- Force measurement systems
- Explosive dangerous circumstances

Compliance

Execution Standards

GB/T 7551-2008