

MLT66

Ultra-Miniature Centre Thread Load Cell

MeasureX

Features

- Miniature size ($\Phi 13\text{mm}$)
- Load Measurement Range of 0 to 500kg
- Robust Construction



Description

MLT66 is a miniature tension compression load cell which can be easily integrated into applications with space constraint. The outside thread along its axis of symmetry can accommodate various adapters which are suitable for screwing into a threaded hole quickly and easily. All parts have been welded together including the cable guide bush in the sensor housing which makes it suitable for harsh environments. The standard Precision is 1% FS. The robust construction of MLT66 with its high performance makes it ideal for long term accurate applications.

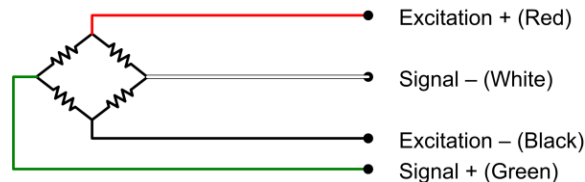
Applications

- Determining forces in Bowden cable
- Load monitoring in robotic arms
- Durability check of soldered and welded joints
- Measuring tractive forces of plug connections

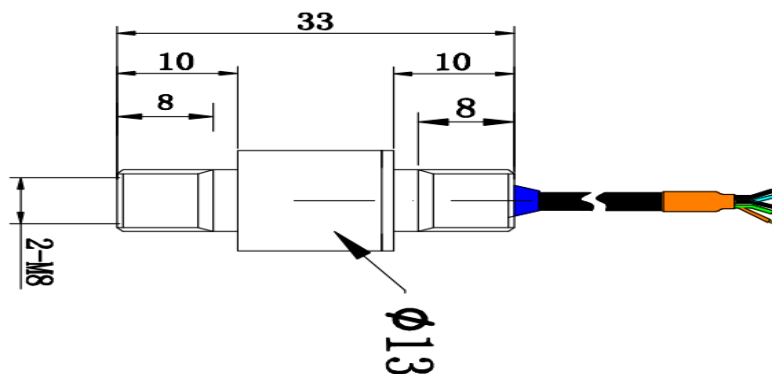
Technical Specifications

- Capacity: 200,300,500kg
- Output: 1~1.5mV/V
- Precision: 1% FS (combined LRH error)
- Creep: 1% FS / 30min
- Overload rating: 150% FS
- Excitation: 5 V
- Maximum excitation: 10V
- Zero unbalance: $\pm 2\%$ FS
- Compensated temp. range: -10 to 60°C
- Operating temp. range: -20 to $+80^\circ\text{C}$
- Temp. coefficient of zero: 1% FS / 10°C
- Temp. coefficient of span: 1% FS / 10°C
- Input Impedance: $350\pm 5\Omega$
- Output resistance: $350\pm 5\Omega$
- Insulation resistance: $\geq 5000\text{M}\Omega$ @100VDC
- Electrical connection: as requested

Wiring



Dimensions



Note: All specifications are subject to change without prior notice

Ver. 5.2-17/11