

**Description**

Tension sensing block is strain gage based load cell with full temperature compensation. It is provided with overload protection and it is easy for installation. It is designed for fitting Plummer bearing block. Load sensing element is constructed from tool steel & the outer body is powder coated MS. TSB are typically applied in pair, one under each of supporting guide block pillow bearings. Higher capacity version is available for 300 kg onwards load upto 1.5 Tf.

**Features**

- ❖ 10 to 200 Kgf. capacities offered.
- ❖ Complete environmental protection IP65 Class for gage area.
- ❖ Standard output 1.5 mV/V available.

**Applications**

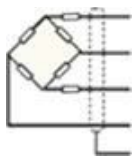
Used for measuring tension of materials drawn over a rotating rollers in web processing industries & web converting processes such as:

- ❖ Paper
- ❖ Foil
- ❖ Magnetic Tape
- ❖ Plastic Tape
- ❖ Yarn & Filaments
- ❖ Printing, Coating & Laminating.

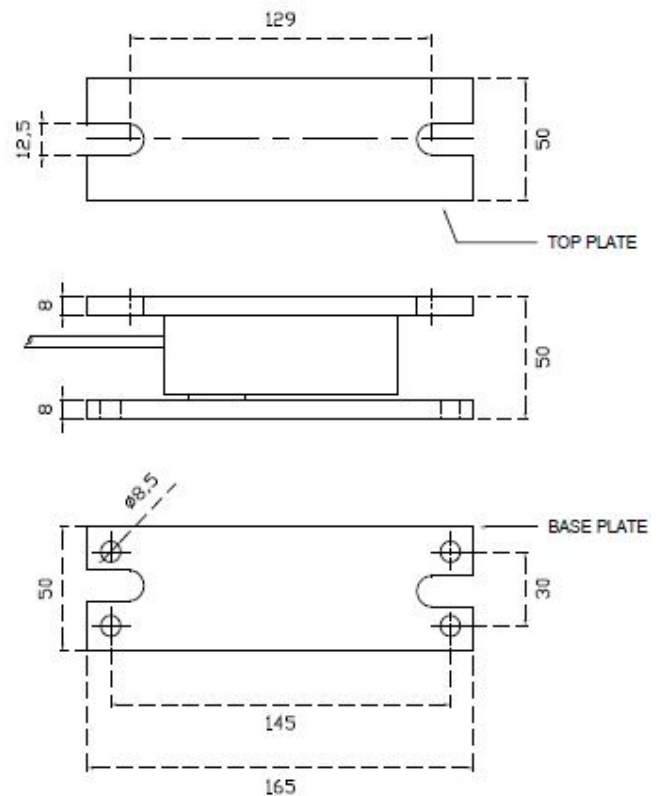
**Performance Specification**

Standard Capacities (KGF)	10,20,50,75, 100,200
Excitation Voltage	10 VDC- Maximum 15 VDC
Nominal Output	1.5 m V/ V
Non - Linearity	< ±0.1% FSO(Full Scale Output)
Hysteresis	< ±0.1% FSO
Non-Repeatability	< ±0.1% FSO
Creep (30 minutes)	< ±0.03% FSO
Zero Balance	±1.0% FSO
Input Resistance	390 ± 15 Ohms
Output Resistance	350 ± 3 Ohms
Insulation Resistance (50 VDC)	> 1000 Mega Ohms
Cable Length (4 Core Screened)	5 mtrs
Safe Overload of Rated Capacity	150%
Ultimate Overload of Rated Capacity	250%
Allowable Side Load	50%
Temp. Compensated Range	0-60 °C
Temperature Effect on Output	< 0.04% FSO/ °C
Temperature Effect on Zero	< 0.04% FSO/ °C
Rotational Angular Deflection	< 0.5mm at FSO
Finish & Construction	Tool Steel
Environmental Protection Class	IP 65 gage area

**Electrical Termination**



<b>+Input</b>	Red
<b>+Output</b>	Green
<b>-Input</b>	Black
<b>-Output</b>	White
<b>Shield</b>	



ALL DIMENSIONS ARE IN MM



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