

MODEL
SP SERIES

RECTANGULAR SHEAR BEAM LOAD CELL



FEATURES :

- ❖ 100 Kgf. to 10000 Kgf. Capacities offered
- ❖ Complete Environmental Protection -IP67 Class
- ❖ Standardized output (3.0 ± 0.25%) available on request
- ❖ Also available In stainless steel construction Model - 30310-SS, suitable for hygienic applications like Food, Dairy & Pharmaceutical Industries and Corrosive Chemical

APPLICATIONS :

- ❖ Low Profile Floor Scales.
- ❖ Tank, Hopper & Bag Weighing
- ❖ Force & Tension Measurement
- ❖ Industrial Automation
- ❖ Pallet Scale.

DESCRIPTION :

This is a single ended Shear Beam, Strain Gage based, Load Cell designed for Multiple use in low profile platform scales & in tank, bin and hopper weighing systems. It is constructed from high alloy tool Steel for excellent resistance to shock and overload. The cell is sealed against moisture ingress for use in wash-down areas and it is Electroless Nickel plated for corrosion resistance. It is low cost ideal Load Cell for industrial automation applications. **Model 30310-SS is Provided in Hardenable Stainless Steel-17-4 PH Construction.**

PERFORMANCE SPECIFICATION :

Standard Capacities (Kgf.)

(T1)

Excitation Voltage

Nominal Output

Non - Linearity

Hysteresis

Non-Repeatability

Creep (30 minutes)

Zero Balance

Input Resistance

Bridge Resistance

Insulation Resistance

Safe Overload

Ultimate Overload

Allowable Side Load

Side Load Discrimination

Temperature

Compensated Range

Temperature Effect on Output

Temperature Effect on Zero

Deflection

: 100*, 150*, 200*, 250*, 300, 500*, 750

: 1, 1.5, 2, 2.5, 3, 5, 7.5, 10

: 10 VDC - Maximum 15 VDC

: 3.0 mV/V

: < ± 0.025 % FSO (Full Scale Output)

: < ± 0.02 % FSO

: < ± 0.01 % FSO

: < ± 0.03 % FSO

: ± 1.0 % FSO

: 390 ± 3.5 Ohms

: 350 ± 3.5 Ohms

: > 1000 Mega Ohms at 50 VDC

: 150 % of Rated Capacity

: 300 % of Rated Capacity

: 50 % of Rated Capacity

: 500 : 1

: 0-60° C

: < 0.0015 % FSO/°C

: < 0.0020 % FSO/°C

: < 0.5 mm at FSO

Please refer table on back page

: 30310 - Electroless Nickel Plated Tool Steel -

30310-SS - Hardenable Stainless Steel-17-4

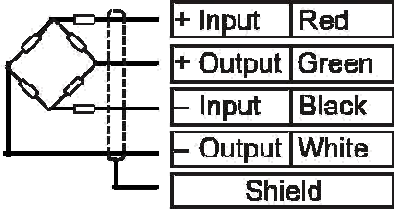
PH

IP67

Environmental Protection Class

*Randing Beam Design

ELECTRICAL TERMINATION



4 CORE SCREENED CABLE

CAPACITY Kgf.	A	B	C	D	E	F	H	G	I	X	Torque m. kg.	Cable Length Mtrs.
100 to 2500	130	32	32	13	15	25	15	75	M12 x 1.25	55	2.5	5
3000 to 5000	172	38	38	21	19	38	19	95	M20 x 1.50	76	5	10
7500 to 10000	223	50	50	25	25	50	25	120	M24 x 2.00	100	10	20

All dimensions are in mm.

