

# 60310-HS

## HERMETICALLY SEALED SINGLE POINT LOAD CELL



### Description

60310-HS is Hermitically Sealed Single Point Load cell. It is specially designed for small scales for fisheries and dairy applications. It is constructed from Tool Steel EN24 or Stainless Steel for protection against corrosion and shocks. It is strain gauge based load cell with full temperature compensation over 10 to 50°C. It is easy to install and use. Strain gauge area is sealed by Laser welded SS Cover for protection against ingress of moisture and water.

### Applications

- Table Top Scales
- Fisheries Scales
- Check Weigher
- Bagging Machines
- Dairy, Chemical and Pharmaceutical weighing

### Key Features

Complete Environmental Protection for gauge area – Meets IP 68 class.  
Protection class with SS cap laser welded

Electro less Nickel Plated **Tool Steel** & **Stainless Steel** 17-4 PH constructions

Laser welded cap for gauge area for hermetical sealing

Wide range of capacities from 150 KGF to 600 KGF

Calibration in mV/V/Ω

Can be **customized** to suit customer's need

## Technical Specifications

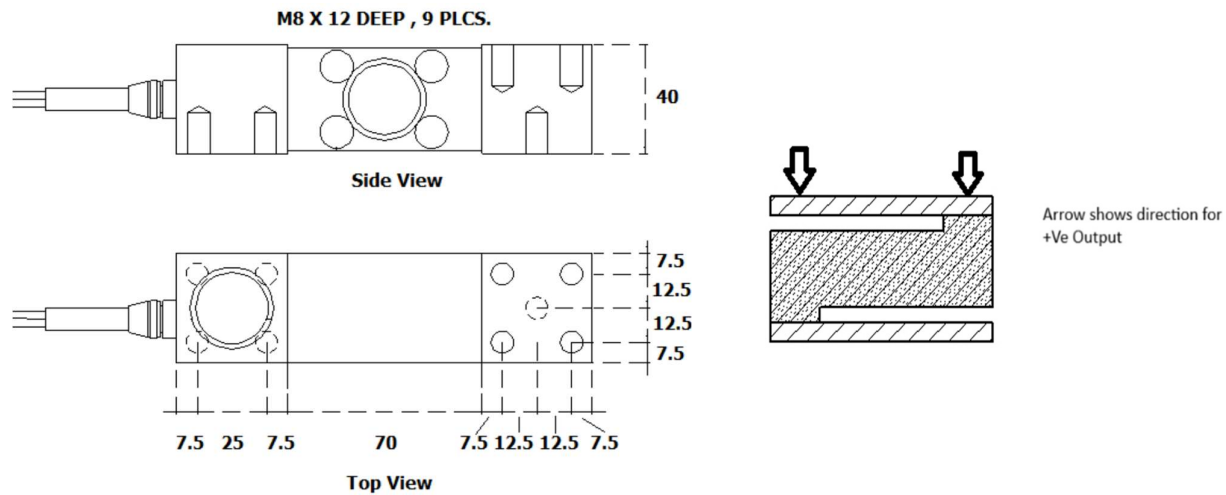
| STANDARD CAPACITY |                                     | 150, 200, 300, 400, 500, 600 -KGF                                                     |
|-------------------|-------------------------------------|---------------------------------------------------------------------------------------|
| PERFORMANCE       | Non - Linearity                     | < $\pm 0.05$ % FSO                                                                    |
|                   | Hysteresis                          | < $\pm 0.03$ % FSO                                                                    |
|                   | Non-Repeatability                   | < $\pm 0.05$ % FSO                                                                    |
|                   | Creep (30 minutes)                  | < $\pm 0.03$ % FSO                                                                    |
|                   | Zero Balance                        | $\pm 5.0$ % FSO                                                                       |
| ELECTRICAL        | Output                              | 1.5 mV/V                                                                              |
|                   | Excitation Voltage                  | Maximum 15 VDC (Suggested 5Vdc / 10Vdc)                                               |
|                   | Input Resistance                    | $390 \pm 20.0 \Omega$ (Ohms)                                                          |
|                   | Output Resistance                   | $350 \pm 10.0 \Omega$ (Ohms)                                                          |
|                   | Insulation Resistance               | (100 VDC) > 1000 Mega $\Omega$ (Ohms)                                                 |
| STRUCTURE         | Safe Overload Of Rated Capacity     | 150%                                                                                  |
|                   | Ultimate Overload of Rated capacity | 200%                                                                                  |
|                   | Allowable Side Load                 | 50%                                                                                   |
|                   | Platter Size                        | 500 mm X 500 mm                                                                       |
|                   | Finish Product                      | Electro less Nickel Plated Tool Steel or Stainless Steel 17-4 PH                      |
|                   | As per IS/IEC 60529:2001            | Meets IP 68                                                                           |
| TEMP.             | Operating Temperature               | 0°C to 60°C                                                                           |
|                   | Compensated Temperature             | 10°C to 50°C                                                                          |
|                   | Temperature Effect on Output        | < 0.005 % FSO/ °C                                                                     |
|                   | Temperature Effect on Zero          | < 0.004 % FSO/ °C                                                                     |
|                   | Eccentric Load Effect               | < 0.3% of FSO When 1/3 rated load placed within 250mm radius from center of load cell |

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## Dimensions (mm)

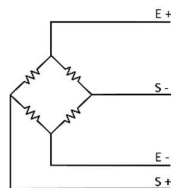


| CAPACITY (KGF.)              | CABLE   |
|------------------------------|---------|
| 100, 200, 300, 400, 500, 600 | 3 Meter |

All dimensions are in mm.

**Specification are subject to change**

## Electrical Termination



|                |       |
|----------------|-------|
| Excitation(E+) | Red   |
| Signal(S-)     | White |
| Excitation(E-) | Black |
| Signal(S+)     | Green |
| Shield         |       |