

# RSL 111R

## Weigh Bridge Load Cell

**RUDRRA SENSOR**

The load cell Technology



### Product Description

Rudrra Sensor pioneered the concept of the cup ball Load cell in single element first time in India. Compact and yet very robust the RSL 111 is available in very wide range of capacities from 5t to 40t. The cup ball load cell design ensure that the optimum weighing accuracy is archived when subjected to scale desk movement. One piece design for better accuracy in weigh bridge scale.

### Applications

Weigh bridge, Truck Scale, High capacity Scales, Rail load cell scales,

### Key Features

- \*Alloy steel structure
- \*Glue sealing & welded sealing
- \*Nickel plated / Color Coating / Nickel chrome finish available
- \*Waterproof & anti-corrosion
- \*Suitable for multiform environments
- \*Suitable for electronic truck scale and weigh bridge
- \*Self Restoring Design

### Optional :

- \* Digital Load cell
- \* Stainless steel structure



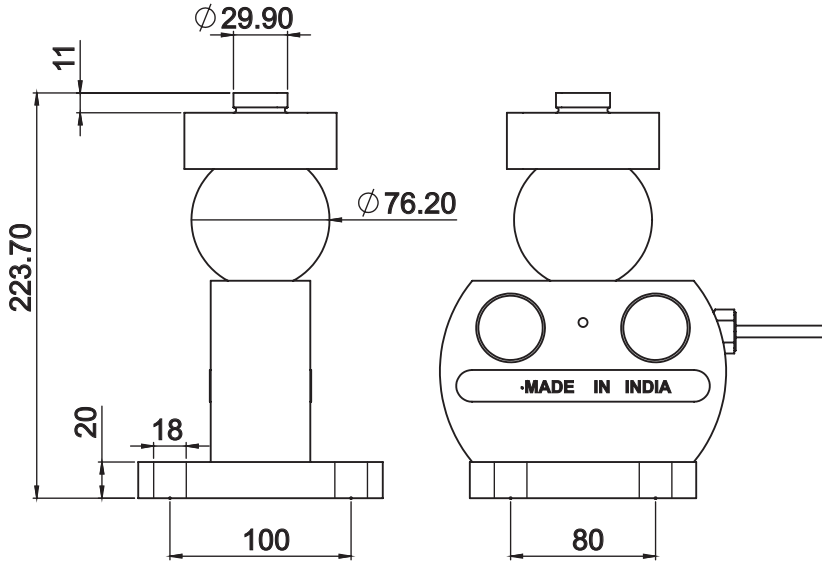
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## Cup Ball Type Load Cell

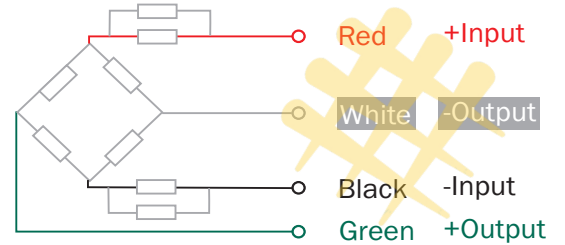
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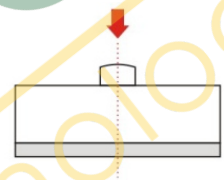
Dimensions :



Cable Connection Details :



Load Application Layout :



### Parameters : (Analog Load Cell)

Rated load (Ton) 10 / 20 / 30 / 40			
Precision	C2	Excitation Voltage (V)	5~12 (DC)
Composition Error	$\pm 0.03$ & $\pm 0.02$	Compensated temp. Range ( $^{\circ}\text{C}$ )	- 10~+40
Rated Output	$2.0 \pm 0.002$	Use Temp. Range	-20~+55 $^{\circ}\text{C}$
Creep (%F.S / 30min)	0.023 / 0.016	Temp. Effect on Zero (%FS/ $10^{\circ}\text{C}$ )	0.017 / 0.011
Zero balance %F.S	$\pm 1.5$	Temp. Effect on Span (%FS/ $10^{\circ}\text{C}$ )	0.029 / 0.019
Input resistance ( $\Omega$ )	$750 \pm 10$	Safe Overload (%FS)	120
Output resistance ( $\Omega$ )	$700 \pm 5$	Ultimate overload	150 %
Insulation resistance ( $\Omega$ )	$\geq 5000$ (50VDC)	Defend Grade	IP 67/ IP 68

