

High Capacity Compression Load Cell



FEATURES

- Capacities 10 - 50 ton
- Stainless steel housing
- Surge arrestors fitted
- Simple to install
- 0.03% total error
- 6 wire sense circuit
- Output tolerance 0.1%

OPTIONAL FEATURES

- EEx ia IIC T4 - hazardous area approval
- Anti-rotation groove

DESCRIPTION

Model 121 is a high capacity truck scale and silo load cell which is supplied complete with its own unique rocker mounting components.

Suitable for all heavy duty weighing applications the 121 gives the user high accuracy and low installation cost.

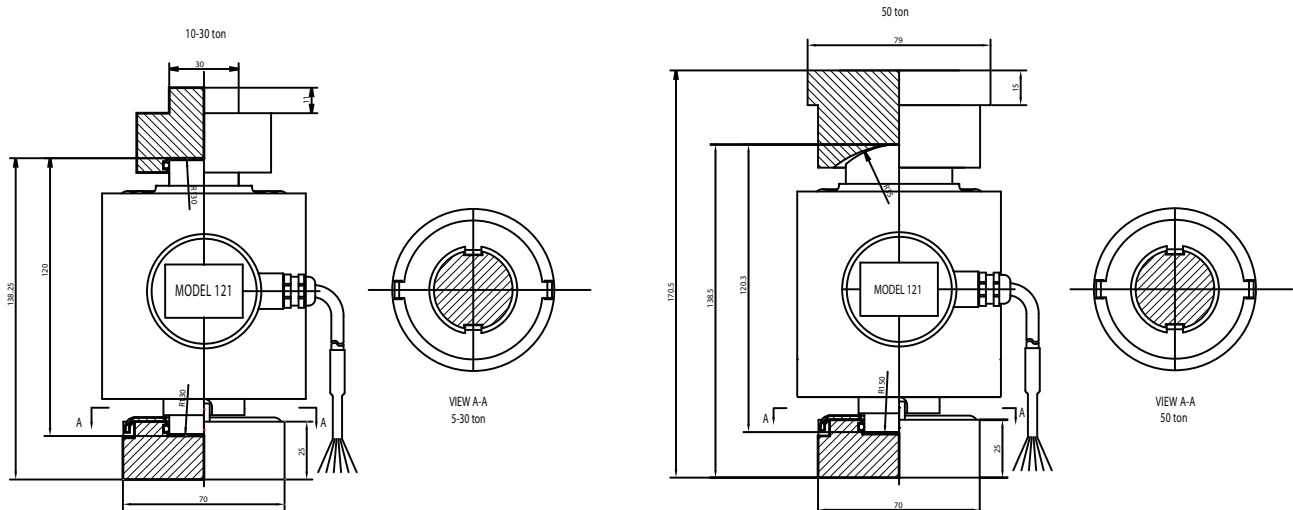
The 121 has a stainless steel housing to protect against corrosion. The alloy steel compression element is nickel plated, and the rocker mounting accessories are zinc plated alloy steel.

The two additional sense wires feed back the voltage reaching the load cell. Complete compensation of change in lead resistance due to temperature change and/or cable extension, is achieved by feeding this voltage into the appropriate electronics.

APPLICATIONS

- Truck weighbridges
- Silo and hopper weighing
- Train "rail" scales
- Process weighing

OUTLINE DIMENSIONS IN MILLIMETERS



SPECIFICATIONS			
PARAMETER	VALUE		UNIT
Rated capacity-R.C. (E _{max})	10, 20, 30, 50		ton
NTEP/OIML Accuracy class	Non-Approved		
Maximum no. of intervals (n)	1000	3000	
Y = E _{max} /V _{min}	2000	6000	
Rated output-R.O.	1.5		mV/V
Rated output tolerance	0.0015		±mV/V
Zero balance	0.015		±mV/V
Zero Return, 30 min.	0.0500	0.0300	±% of applied load
Total Error (per OIML R60)	0.0500	0.0300	±% of rated output
Temperature effect on zero	0.0300		±% of rated output/°C
Temperature range, compensated	-10 to +40		°C
Temperature range, safe	-30 to +70		°C
Maximum safe central overload	150		% of R.C.
Ultimate central overload	200		% of R.C.
Excitation, recommended	10		V _{dc} or V _{ac} rms
Excitation, maximum	24		V _{dc} or V _{ac} rms
Input impedance	670±15		Ω
Output impedance	605±5		Ω
Insulation resistance	>2000		MΩ
Cable length	15		m
Cable type	6 conductors, 26 AWG, Floating Screen, PVC jacket		Standard
Construction	Stainless steel housing, plated alloy steel element		
Environmental protection	IP68		

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