

High Capacity Compression Load Cell

FEATURES

- Capacities: 10T–50T
- Stainless steel housing
- Surge arrestors fitted
- Simple to install
- 0.03% total error
- 6-wire sense circuit
- Output tolerance 0.1%
- **Optional**
 - EEx ia IIC T4—hazardous area approval
 - Anti-rotation groove

APPLICATIONS

- Truck weighbridges
- Silo and hopper weighing
- Train “rail” scales
- Process weighing

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.

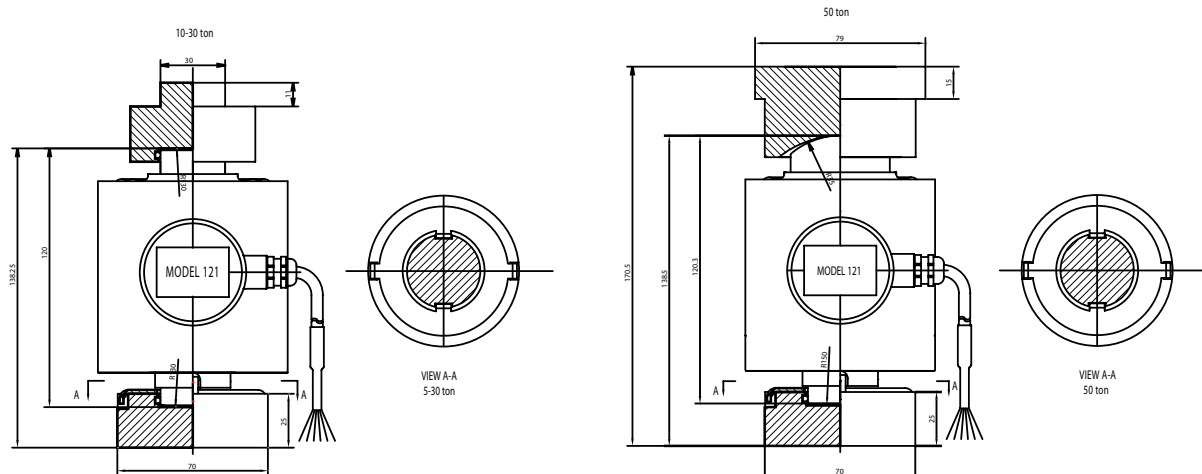
The 121 has a stainless steel housing to protect against corrosion. The alloy steel compression element is nickel

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.



OUTLINE DIMENSIONS in millimeters



High Capacity Compression Load Cell

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
Total error (per OIML R60)	0.0500	0.0300
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	VDC or VAC RMS
Excitation, maximum	24	VDC or VAC 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	

All specifications subject to change without notice.

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