

Single Point Load Cell

model **LA114**



Model LA114 is a single point three beam load cell, designed for direct mounting of large platforms.

Typical applications include check weighing scales, floor scales, counting scales, etc.

A special humidity-resistant protective coating assures long-term stability over the entire compensated temperature range.

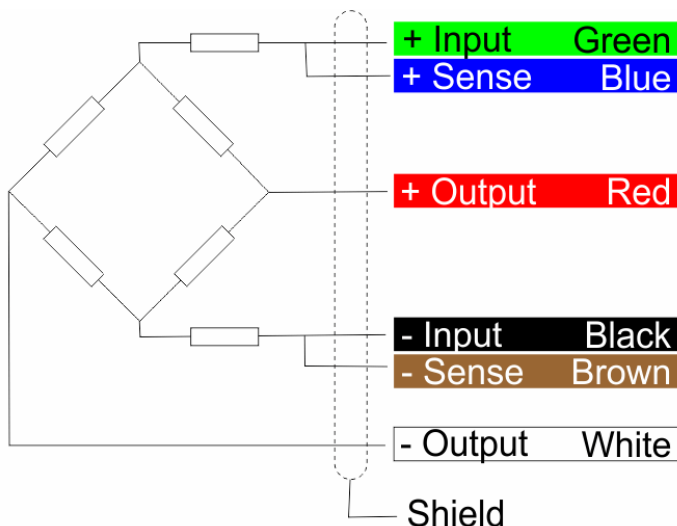
The two additional sense wires, sample the bridge supply voltage at the load cell. Complete compensation of change in the lead wires resistance, due to temperature change and/or cable extension, is achieved by feeding this voltage into the appropriate electronics.

Properties

- capacities from 50 to 500 kg
- high accuracy load cell
- maximum platform size 800 x 800 mm at 3000 divisions
- IP65 protection class
- anodized aluminum construction
- TH1250 applicable

Technical Data

PARAMETER	UNIT	VALUE
Rated capacity (E ^{max})	kg	50, 75, 100, 150, 200, 250, 300, 500
Sensitivity	mV/V	2.0
Sensitivity tolerance	± mV/V	0.20
Zero balance	± mV/V	0.10
Max. no. of intervals (n)		3000
$Y = E^{\max} / V^{\min}$	Minimum	10000
$Z = E^{\max} / (2 \cdot DR)$	Minimum	3000
Eccentric loading error	±%/cm	0.0033
Maximum platform size	mm	800 x 800
Nom. temperature range	°C	-10 to +40
Service temp. range	°C	-20 to +70
Limit load	% of R.C.	150
Break load	% of R.C.	300
Nominal excitation	V	10
Excitation, maximum	V	15
Input impedance	Ohm	405 ± 15
Output impedance	Ohm	350 ± 3
Insulation resistance	MOhm	>2000
Cable length	Meter	3.0
Cable type	Standard	6 x26 AWG, Black PVC Jacket
Color code	See diagram at the left	
Construction	Anodized aluminum	
Protection class	IP 65	



Versions

type	LA114-50kg	LA114-75kg	LA114-100kg	LA114-150kg	LA114-200kg	LA114-250kg	LA114-300kg	LA114-500kg
capacity	50 kg	75 kg	100 kg	150 kg	200 kg	250 kg	300 kg	500 kg

Measurement sketch

