



### MECHANICAL DATA

<b>Rated Capacity, (R.C.) E<sub>max</sub></b>	50,000 lb / 22,680 kg, 100,000 lb / 45,360 kg, 120,000 lb / 54,430 kg
<b>Minimum Dead Load</b>	500 lb / 226 kg, 1,000 lb / 454 kg, 1,200 lb / 544 kg
<b>Safe Load Limit</b>	150% R.C.
<b>Ultimate Load</b>	300% R.C.
<b>Deflection at R.C.</b>	0.01 in / 0.33 mm
<b>Net Weight</b>	50K-SCA: 13 lb / 5.8 kg 100K-SCA: 10 lb / 4.8 kg 120K-SCA: 11 lb / 5 kg

### ELECTRICAL DATA

<b>Rated Output</b>	2mV/V
<b>Excitation Voltage, Minimum</b>	10 VDC
<b>Excitation Voltage, Maximum</b>	15 VDC
<b>Cable Length</b>	35 ft / 10 m
<b>Terminal Resistance</b>	
Excitation	1,150 ± 60 ohms
Signal	1,050 ± 15 ohms
<b>Zero Load Output</b>	>2% R.C.
<b>Insulation Resistance</b>	>5,000 megohms at 50 VDC

## SCA Series

### Compression Weighing Load Cells

**Capacities: 50,000 lb/22,680 kg,  
100,000 lb/45,360 kg,  
120,000 lb/54,430 kg**

- **Environmentally-sealed (IP68)**
- **Stainless steel construction**
- **35'/10m integral shielded cable**

These heavy-capacity compression load cells are ideal for multi-cell applications including truck scales, railroad track scales, and heavy-duty tank/hopper weighing systems.

The SCA load cells are fabricated from stainless steel to provide the ultimate in protection when caustic, corrosive or wet environments are encountered.

Load cells are environmentally-sealed for absolute water protection. Each load cell is furnished with stainless steel load buttons on each end, and an integral multi-conductor cable secured by a strain relief seal.

### CERTIFICATE DATA

ISSUING BODY	NTEP	OIML
<b>Certificate Number</b>	89-042A4	R60/1991-DK-97.04 rev 1
<b>Accuracy Class</b>	IIIL	C3
<b>Maximum Number of Load Cell Intervals, n<sub>max</sub></b>	10,000	3,000
<b>Single/Multiple</b>	M	
<b>Humidity Symbol</b>		CH
<b>Minimum Load Cell Verification Interval V<sub>min</sub></b>	1.5 lb/0.68 kg, 3 lb/1.36 kg, 3.6 lb/1.63 kg	1 lb/0.45 kg, 2 lb/0.9 kg, 2.4 lb/1.09 kg

### ENVIRONMENTAL DATA

<b>Temperature Compensation Range</b>	-10 to +40°C
<b>Operating Temperature Range</b>	-29 to +93°C
<b>Construction &amp; Protection Code</b>	CP-67 HU, IP68
<b>Barometric Pressure Effect on Zero Load Output</b>	<1 v (min)/1kPa

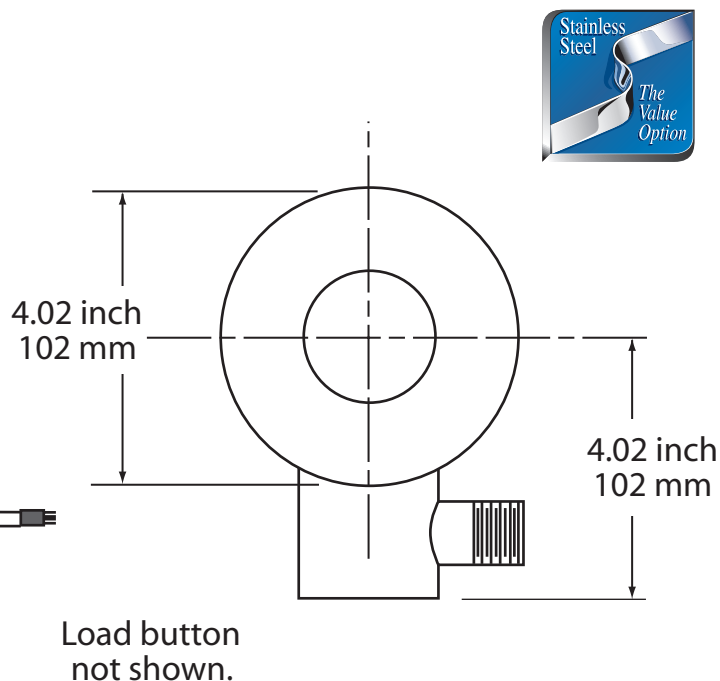
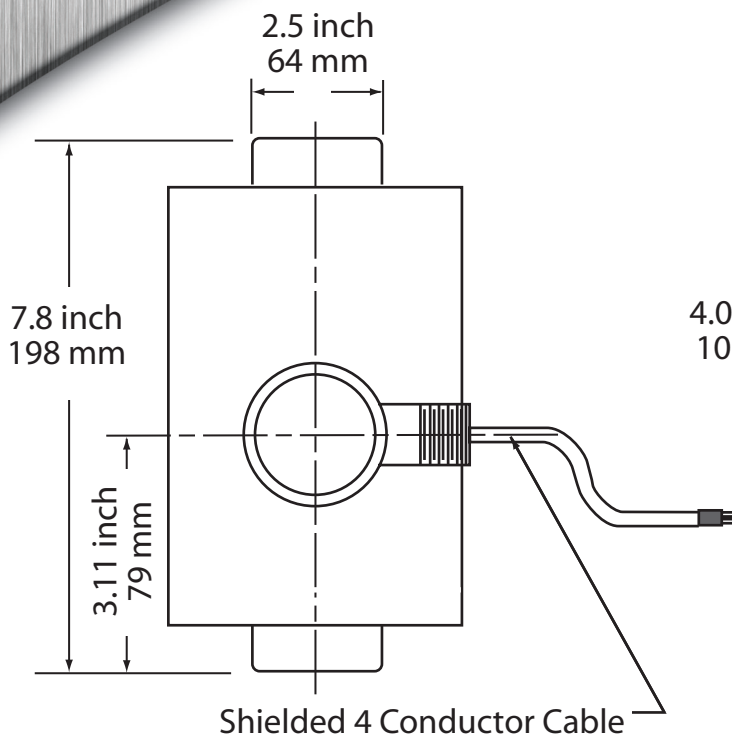
SCA  
LOAD CELL

SCA

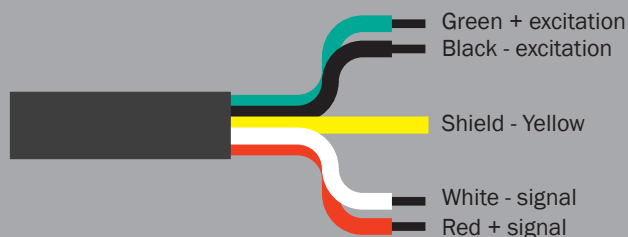
# SCA Series

**Compression Weighing Load Cells**

**Model 50K-SCA**  
**Model 100K-SCA**  
**Model 120K-SCA**



## ELECTRICAL INFORMATION



## State-of-the-Art Load Cell Manufacturing Facility ISO 9001 Quality Environment



## CERTIFICATIONS

The Model SCA Load Cell meets or exceeds Class III, 10,000 division accuracy requirements in accordance with NIST Handbook 44. A Certificate of Conformance (Number 89-042A4) has been issued under the National Type Evaluation Program (NTEP) of the National Conference on Weights and Measures.



R60/1991-DK-97.04 rev 1

## VCAP CERTIFIED

Cardinal Scale has been found to fully comply with the Verified Conformity Assessment Program (VCAP) administered by the National Type Evaluation Program (NTEP) of the National Conference on Weights and Measures (NCWM).

Cardinal Scale reserves the right to improve, enhance or modify features and specifications without prior notice. All registered trademarks are the property of their respective owners.

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