

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
Certificate Number	89-042A4	R60/1991- DK-97.04 rev 1
Accuracy Class	IIIL	C3
Maximum Number of Load Cell Intervals, n _{max}	10,000	3,000
Single/Multiple	М	
Humidity Symbol		СН
Minimum Load Cell Verification Interval V _{min}	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

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

MECHANICAL DAVA

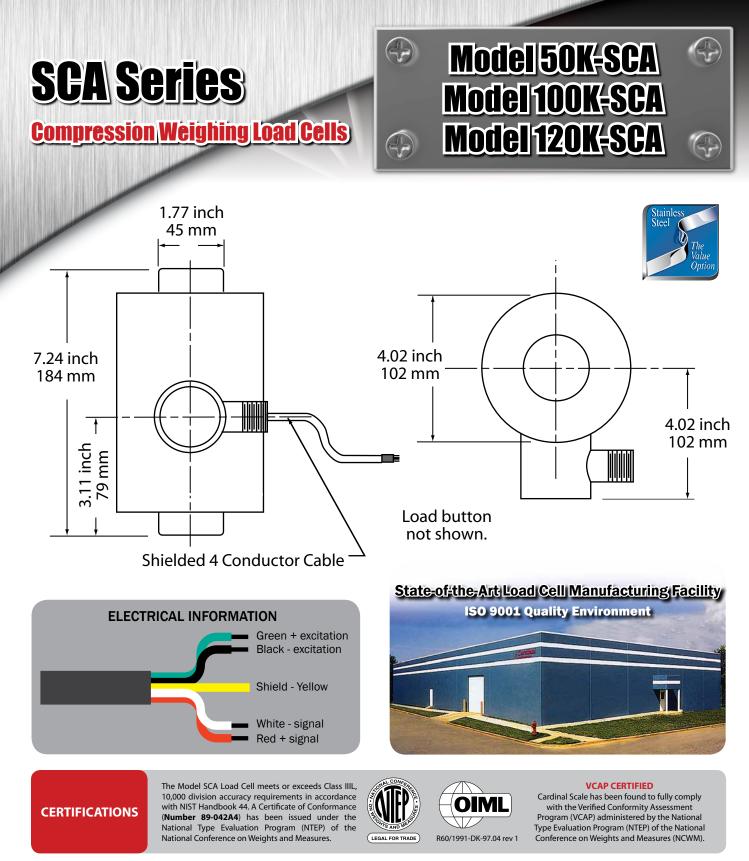
Rated Capacity, (R.C.) E _{max}	50,000 lb / 22,680 kg, 100,000 lb / 45,360 kg, 120,000 lb / 54,430 kg
Minimum Dead Load	500 lb / 226 kg, 1,000 lb / 454 kg 1,200 lb / 544 kg
Safe Load Limit	150% R.C.
Ultimate Load	300% R.C.
Deflection at R.C.	0.01 in / 0.33 mm
Net Weight	50K-SCA: 13 lb / 5.8 kg 100K-SCA: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

ELECTRICAL DAVA

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

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SOLD BY:

ControlSystemsUSA.com Houston, Texas USA sales@ControlSystemsUSA.com 832-615-3588

