

COMPRESSION LOAD CELLS



SST

THE
GUARDIAN



**Lifetime
Warranty**

Guardian Hydraulic SST Compression Load Cell

The Guardian all-stainless steel hydraulic compression load cells are geared for weighing applications requiring superb accuracy in a hostile environment. Cardinal's hydraulic load cells are built to last a lifetime and require no electricity within the scale itself. All of this extreme-duty protection means one thing, big savings over the life of your scale using Guardian load cells.

Model	Capacity	Shipping Wt.
*H2.5K	2,500 lb / 1,134 kg	7.5 lb / 3 kg
*H5K	5,000 lb / 2,268 kg	15.5 lb / 7 kg
*SST10	10,000 lb / 4,536 kg	7.5 lb / 3 kg
SST25	25,000 lb / 11,340 kg	20.5 lb / 9 kg
SST50	50,000 lb / 22,700 kg	53 lb / 24 kg
SST75	75,000 lb / 34,020 kg	70 lb / 32 kg

Accuracy Class	IIIL 10000
Safe Load Limit	150% R.C.
Rated Output	Hydraulic
Nominal Output	1800 psig
Copper Tubing	20' / 6 m
Material	Stainless Steel
Protection Class	IP68

* Not "Legal for Trade"



Cert. No. 05-076

- Extreme-Duty, Superior Protection
- Immune to Lightning and Water Damage

SCA

SCA Compression Load Cell

The SCA heavy-capacity series of compression load cells are ideal for multiple load cell compression applications such as truck scales, railroad track scales and heavy-duty tank weighing systems. 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 (IP68).



Model	Capacity	Shipping Wt.
50K-SCA	50,000 lb / 22,700 kg	14 lb / 6 kg
100K-SCA	100,000 lb / 45,350 kg	11 lb / 5 kg
120K-SCA	120,000 lb / 54,430 kg	12 lb / 5 kg
200K-SCA	200,000 lb / 90,700 kg	37 lb / 17 kg

Accuracy Class	IIIL 10000 / C3
Safe Load Limit	150% R.C.
Ultimate Load	300% R.C.
Rated Output	2mV/V
Cable Length	30' / 9 m
Material	Stainless Steel
Protection Class	IP68



89-042



R60/1991-DK-96.05

- IP68-Rated Environmentally-Sealed
- Includes Integral Multiconductor Cable

SCD

SCD Compression Load Cell

The Smartcell contains a microcomputer and digital circuitry that automatically compensates for non-linearity and temperature-induced error. These digital load cells are designed for use in truck and railroad scales plus vessel inventory management.



Model	Capacity	Shipping Wt.
50K-SCD	50,000 lb / 22,700 kg	11 lb / 5 kg
100K-SCD	100,000 lb / 45,350 kg	11 lb / 5 kg

Accuracy Class	IIIL 10000
Safe Load Limit	150% R.C.
Ultimate Load	300% R.C.
Rated Output	Digital
Cable Length	30' / 9 m
Material	Stainless Steel
Protection Class	IP68



89-071

SHEAR BEAM LOAD CELLS

Model	Capacity	Shipping Wt.
DB-50000S	50,000 lb / 22,700 kg	18 lb / 8 kg
DB-75000S	75,000 lb / 34,000 kg	18 lb / 8 kg

Accuracy Class	IIIL 10000 / C3
Rated Output	2mV/V
Cable Length	32' / 10 m
Material	Stainless Steel
Protection Class	IP68



97-133



R60/1991-
DK-99.01



DB Double-Ended Shear Beam Load Cell

Model	Capacity	Shipping Wt.
SB-2500S	2,500 lb / 1,135 kg	7 lb / 3 kg
SB-5000S	5,000 lb / 2,270 kg	7 lb / 3 kg
SB-10000S	10,000 lb / 4,535 kg	10 lb / 4 kg
SB-20000S	20,000 lb / 9,070 kg	12 lb / 5 kg

Accuracy Class	III 5000 / C3 IIIL 10000 / C3
Rated Output	2mV/V
Cable Length	20' / 6 m
Material	Stainless Steel
Protection Class	IP68



87-059



R60/1991-
DK-97.02



SB Shear Beam Load Cell

The SB load cell may be used in such applications as low-profile platform scales, tank and/or hopper weighing, and other process control systems.

Model	Capacity	Shipping Wt.
TB-1KM	1,000 lb / 454 kg	2 lb / 1 kg
TB-2.5KM	2,500 lb / 1,134 kg	2 lb / 1 kg
TB-4KM	4,000 lb / 1,814 kg	2 lb / 1 kg

Accuracy Class	III 5000 / C3
Rated Output	2mV/V
Cable Length	10' / 3 m
Material	Stainless Steel
Protection Class	IP65



99-018



R60/1991-
DK-97.03



TB Shear Beam Load Cell

Model	Capacity	Shipping Wt.
LFB-250M	250 lb / 115 kg	1.5 lb / 0.6 kg
LFB-500M	550 lb / 250 kg	1.5 lb / 0.6 kg
LFB-1000M	1,100 lb / 550 kg	2 lb / 1 kg
LFB-2500M	2,750 lb / 1,250 kg	2 lb / 1 kg

Accuracy Class	C3
Rated Output	2mV/V
Cable Length	10' / 3 m
Material	Stainless Steel
Protection Class	IP65



R60/1991-DK-00.02



LFB Shear Beam Load Cell

The cell's low profile is ideal for floor scales and light to medium weighing.

SINGLE POINT LOAD CELLS



SP

SP Single Point Load Cell

Cardinal's SP series single point load cells are manufactured for light to medium weighing operations such as bench or counter scales. These cells are fabricated from aircraft-quality aluminum or stainless steel.



Model	Capacity	Shipping Wt.
SP-6L	6 lb / 3 kg	1 lb / 0.5 kg
SP-10L	10 lb / 5 kg	1 lb / 0.5 kg
SP-15L	15 lb / 7 kg	1 lb / 0.5 kg
SP-25L	25 lb / 12 kg	1 lb / 0.5 kg
SP-50L	50 lb / 23 kg	1 lb / 0.5 kg
SP-100L	100 lb / 45 kg	1 lb / 0.5 kg
SP-200LM	200 lb / 90 kg	3.5 lb / 2 kg
SP-500LM	500 lb / 225 kg	7 lb / 3 kg
SP-1000LM	1,000 lb / 455 kg	7.5 lb / 4 kg

SP-L

Accuracy Class	C3
Rated Output	2mV/V
Cable Length	7' / 2 m
Material	Aluminum
Protection	IP65

SP-LM (metric threads)

Accuracy Class	C3
Rated Output	2mV/V
Cable Length	10' / 3 m
Material	Stainless
Protection	IP65

TSP

TSP Single Point Load Cell

The economically-priced TSP is a high-performance, low-profile, single point load cell for use in platform and hanging scales, counting scales, hoppers and packaging scales, and a variety of other medical, industrial and process weighing applications. The TSP load cell features a moisture-proof barrier and 2-year limited warranty. The TSP single point load cell is easy to install and use and is interchangeable with most other load cells of its type.



Model	Capacity	Shipping Wt.
*TSP-5KG	10 lb / 5 kg	1.5 lb / 0.7 kg
*TSP-7KG	15 lb / 7 kg	1.5 lb / 0.7 kg
TSP-10KG	20 lb / 10 kg	1.5 lb / 0.7 kg
TSP-15KG	35 lb / 15 kg	1.5 lb / 0.7 kg
TSP-20KG	45 lb / 20 kg	1.5 lb / 0.7 kg
TSP-30KG	65 lb / 30 kg	1.5 lb / 0.7 kg
TSP-50KG	110 lb / 50 kg	1.5 lb / 0.7 kg
TSP-100KG	220 lb / 100 kg	2.5 lb / 1 kg

* Not "Legal for Trade"

Accuracy Class	III 5000 / C3 / C4
Rated Output	2mV/V
Cable Length	10' / 3 m
Material	Aluminum
Protection Class	IP65



97-136



R60/1991-
DK-97.01

TSSP

TSSP Single Point Load Cell

All critical components and wiring in the TSSP stainless steel single point load cell are encapsulated to protect against moisture and to insure stable operation of the TSSP cell in harsh environments.



Model	Capacity	Shipping Wt.
TSSP-20KG	44 lb / 20 kg	1.5 lb / 0.7 kg
TSSP-50KG	110 lb / 50 kg	1.5 lb / 0.7 kg
TSSP-75KG	165 lb / 75 kg	1.5 lb / 0.7 kg
TSSP-100KG	220 lb / 100 kg	1.5 lb / 0.7 kg
TSSP-200KG	440 lb / 200 kg	1.5 lb / 0.7 kg
*TSSP-200KGW	440 lb / 200 kg	1.5 lb / 0.7 kg

* Wide model

Accuracy Class	C3
Rated Output	2mV/V
Cable Length	10' / 3 m
Material	Stainless Steel
Protection Class	IP65



R60/1991-NL-00.02

BELLOWS AND TENSION LOAD CELLS

Model	Capacity	Shipping Wt.
*CB6-10KG	20 lb / 10 kg	1.2 lb / 0.5 kg
CB6-20KG	40 lb / 20 kg	1.2 lb / 0.5 kg
CB6-50KG	110 lb / 50 kg	1.2 lb / 0.5 kg
CB6-100KG	200 lb / 100 kg	1.2 lb / 0.5 kg
CB6-200KG	400 lb / 200 kg	1.3 lb / 0.6 kg

* Not "Legal for Trade"

Accuracy Class	III 4000 / C3 / C4
Rated Output	2mV/V
Cable Length	10' / 3 m
Material	Stainless Steel
Protection Class	IP68



96-091



R60/1991-
DK-96.04

CB6



CB6
Bellows Type
Load Cell

Cardinal's CB6 is a high-performance, sealed bending beam load cell.

Model	Capacity	Shipping Wt.
Z-50	50 lb / 23 kg	1 lb / 0.5 kg
Z-100	100 lb / 45 kg	1 lb / 0.5 kg
Z-250	250 lb / 115 kg	1.8 lb / 0.8 kg
Z-500	500 lb / 225 kg	1.8 lb / 0.8 kg
Z-1000	1,000 lb / 455 kg	1.8 lb / 0.8 kg

Accuracy Class	III 5000/3000 IIIL 10000
Rated Output	2mV/V
Cable Length	Z-50/100: 30" / 76 cm Z-250/500/1000: 30' / 9 m
Material	Aluminum
Protection Class	IP65



88-166

Z

**Z Tension Type
Load Cell**

Cardinal's Z series load cells are fabricated from aircraft-quality aluminum alloy, and offer a cost-effective solution to many tension applications. Each load cell has threaded holes on each end for hanger assemblies.



Model	Capacity	Shipping Wt.
*ZX-250	250 lb / 115 kg	1.8 lb / 0.8 kg
*ZX-500	500 lb / 225 kg	2.2 lb / 1 kg
*ZX-1000	1,000 lb / 455 kg	2.5 lb / 1.1 kg
ZX-2500	2,500 lb / 1,135 kg	5 lb / 2.3 kg
ZX-3000	3,000 lb / 1,360 kg	6 lb / 2.7 kg
ZX-5000	5,000 lb / 2,270 kg	7 lb / 3 kg
ZX-10000	10,000 lb / 4,535 kg	8 lb / 3.6 kg
ZX-15000	15,000 lb / 6,803 kg	12 lb / 5.4 kg
ZX-20000	20,000 lb / 9,070 kg	15 lb / 6.8 kg

* Potted sealant in ZX-250 through ZX-1000.
ZX-2500 and larger are hermetically sealed.

Accuracy Class	III 5000 IIIL 10000
Safe Load Limit	150% R.C.
Rated Output	3mV/V
Cable Length	30' / 9 m
Material	Stainless Steel
Protection Class	IP66/68



92-192

ZX

**ZX Tension Type
Load Cell**

Cardinal's ZX series tension load cells are ideally suited for single or multiple load cell tension applications. Simplicity of design permits their use in a wide variety of configurations. When caustic or corrosive environments are encountered, the ZX series is ideal. Manufactured of stainless steel, it offers the ultimate in weighing protection.

