

## Stainless Steel, Multi-Column Compression Load Cell

### FEATURES

- Capacity ranges of 25,000 to 200,000 pounds, 10 to 100 metric tonnes
- Stainless steel, welded seal construction
- Single piece multi-column design
- 3 times more side load capacity than other designs
- Integral conduit adaptor
- 35 feet (10.7m) standard cable length
- Trade certified for NTEP Class III:5000d, IIIIL:10000d and OIML R-60 3000d
- Welded *Sensorgage*™ sealed to IP67 standards

### APPLICATIONS

- Truck scales
- Railroad track scales
- Tank, bin and hopper weighing

### DESCRIPTION

The 65088 is a high capacity, low profile, stainless steel compression load cell.

The unique four column design offers excellent insensitivity to eccentric loads. This design is one of the most successful compression cells ever produced and



is suitable for use in truck scales, rail scales and high capacity silo weighing applications.

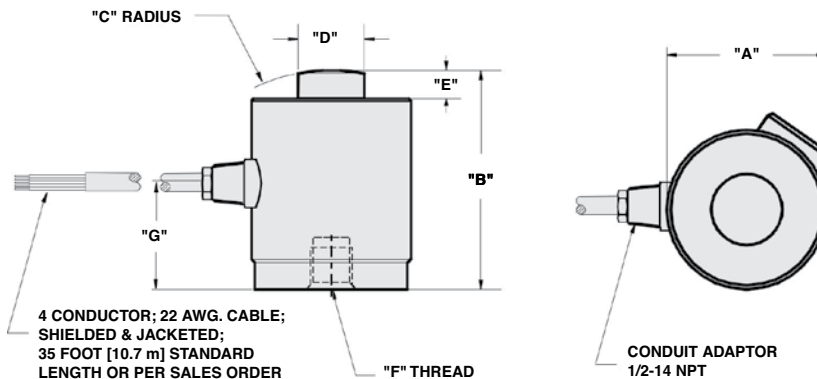
This product's stainless steel construction, welded seals and IP67 rating ensures ultimate survivability under harsh conditions.

This load cell is certified for Legal For Trade applications by both American NTEP and International OIML standards.

### OUTLINE DIMENSIONS in inches (millimeters)

#### Wiring

+ Excitation	Green
- Excitation	Black
+ Output	White
- Output	Red



CAPACITY	A	B	C	D	E	F	G
25k, 50k	3.00	3.25	6.00	1.25	0.40	1/2-20 UNF - 2B x .31 Deep	1.68
100k	4.00	5.00	6.00	2.31	0.51	3/4-16 UNF - 2B x .56 Deep	2.49
200k	6.00	7.25	17.00	3.13	1.04	3/4-16 UNF - 2B x .75 Deep	3.28
(10 t, 25 t)	(76.2)	(82.6)	(152.4)	(31.7)	(10.2)	(M12 x 1.75 - 6H x 8 Deep)	(42.7)
(40 t, 50 t)	(101.6)	(127.0)	(152.4)	(58.7)	(13.0)	(M20 x 2.5 - 6H x 14 Deep)	(63.2)
(100 t)	(152.4)	(184.2)	(431.8)	(79.5)	(26.4)	(M20 x 2.5 - 6H x 19 Deep)	(83.3)

Capacities are in pounds (kg/t).

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<b>SPECIFICATIONS</b>					
<b>PARAMETER</b>	<b>VALUE</b>				<b>UNIT</b>
<b>Rated capacity—R.C. (E<sub>max</sub>)</b>	25k, 50k, 100k, 200k 10 t, 25 t, 40 t, 50 t, 100 t				lbs t
<b>NTEP/OIML accuracy class</b>	NTEP III	NTEP IIIIL	Standard	OIML R60	
<b>Maximum no. of intervals (n)</b>	5000 multiple	10000 multiple		3000	
<b>Y = E<sub>max</sub>/V<sub>min</sub></b>	NTEP Cert. No. 95-134				Maximum available
<b>Rated output—R.O.</b>	2				mV/V
<b>Rated output tolerance</b>	0.25				±% mV/V
<b>Zero balance</b>	≤1.0				±% FSO
<b>Combined error</b>	0.02	0.02	0.03	0.02	±% FSO
<b>Non-repeatability</b>	0.01				±% FSO
<b>Creep error (20 minutes)</b>	0.025	0.03	0.03	0.017	±% FSO
<b>Temperature effect on zero</b>	0.0010	0.0010	0.0015	0.0010	±% FSO
<b>Temperature effect on output</b>	0.0008	0.0008	0.0008	0.0007	±% FSO/°F
<b>Compensated temperature range</b>	14 to 104 (–10 to 40)				°F (°C)
<b>Operating temperature range</b>	0 to 150 (–18 to 65)				°F (°C)
<b>Storage temperature range</b>	–60 to 185 (–50 to 85)				°F (°C)
<b>Safe sideload</b>	30				% of R.C.
<b>Maximum safe central overload</b>	150				% of R.C.
<b>Ultimate central overload</b>	400				% of R.C.
<b>Excitation, recommended</b>	5–20				VDC or VAC RMS
<b>Excitation, maximum</b>	25				VDC or VAC RMS
<b>Input impedance</b>	445.5–454.5				Ω
<b>Output impedance</b>	475.2–484.8				Ω
<b>Insulation resistance at 50 VDC</b>	>1000				MΩ
<b>Material</b>	Stainless steel				
<b>Environmental protection</b>	IP67				

FSO— Full Scale Output

R.C.— Rated Capacity

All specifications subject to change without notice.



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