

## Stainless Steel, Multi-Column Compression Load Cell

### FEATURES

- Capacity ranges of 25,000 to 200,000 pounds, 10 to 100 metric tons
- 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

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

### 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

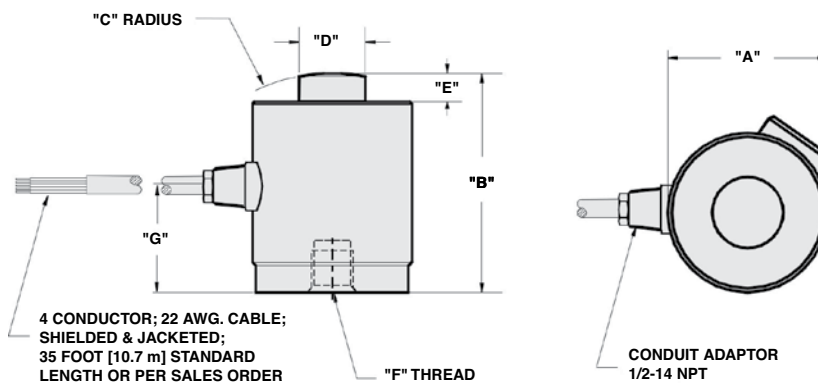
This product's stainless steel construction, welded seals and IP67 rating ensures ultimate survivability under harsh conditions.

This load cell is rated intrinsically safe by the Factory Mutual System (FM); making it suitable for use in potentially explosive environments. 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
[10T, 25T]	[76.2]	[82.6]	[152.4]	[31.7]	[10.2]	[M12 x 1.75 - 6H x 8 Deep]	[42.7]
[40T, 50T]	[101.6]	[127.0]	[152.4]	[58.7]	[13.0]	[M20 x 2.5 - 6H x 14 Deep]	[63.2]
[100T]	[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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SPECIFICATIONS					
PARAMETER	VALUE				UNIT
Rated capacity—R.C. ( $E_{max}$ )	25k, 50k, 100k, 200k 10T, 25T, 40T, 50T, 100T				lbs metric tons
NTEP/OIML accuracy class	NTEP III	NTEP IIIIL	Standard	OIML R60	
Maximum no. of intervals (n)	5000 multiple	10000 multiple		3000	
$Y = E_{max}/V_{min}$	NTEP Cert. No. 95-134			8333	Maximum available
Rated output—R.O.	2				mV/V
Rated output tolerance	0.25				±% mV/V
Zero balance	≤1.0				±% FSO
Combined error	0.02	0.02	0.03	0.02	±% FSO
Non-repeatability	0.01				±% FSO
Creep error (20 minutes)	0.025	0.03	0.03	0.017	±% FSO
Temperature effect on zero	0.0010	0.0010	0.0015	0.0010	±% FSO
Temperature effect on output	0.0008	0.0008	0.0008	0.0007	±% FSO/°F
Compensated temperature range	14 to 104 (–10 to 40)				°F (°C)
Operating temperature range	0 to 150 (–18 to 65)				°F (°C)
Storage temperature range	–60 to 185 (–50 to 85)				°F (°C)
Safe sideload	30				% of R.C.
Maximum safe central overload	150				% of R.C.
Ultimate central overload	400				% of R.C.
Excitation, recommended	5–20				VDC or VAC RMS
Excitation, maximum	25				VDC or VAC RMS
Input impedance	445.5–454.5				Ω
Output impedance	475.2–484.8				Ω
Insulation resistance at 50 VDC	>1000				MΩ
Material	Stainless steel				
Environmental protection	IP67				

FSO—Full Scale Output

R.C.—Rated Capacity

All specifications subject to change without notice.

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