

Compression Load Cell

FEATURES

- Capacities: 50k lbs and 100k lbs
- Environmental protection: IP68 (DIN 40.050)
- Material: Stainless steel
- Hermetically sealed
- **Optional**
 - FM approved for use in potentially explosive atmospheres

APPLICATIONS

- Silo, tanks and hoppers
- Suspended silos, tanks and hoppers
- Railroad scales
- Weighbridges

DESCRIPTION

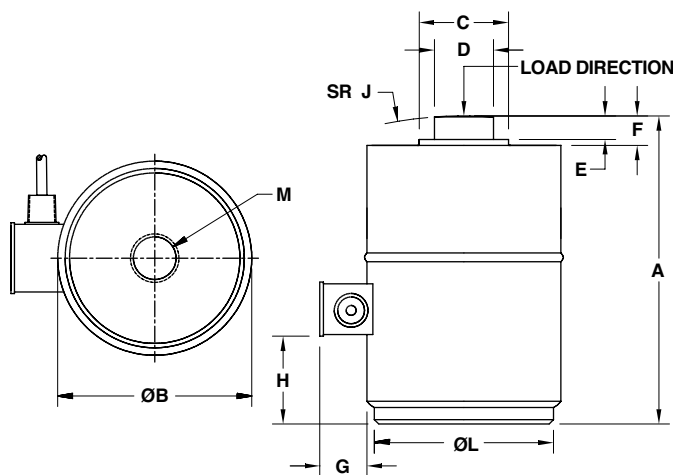
The 92 canister is designed for compression applications. Its stainless steel construction combined with hermetically sealing allows the 92 to be used in harsh environments.

A large range of capacities is available.

Hermetic sealing offers excellent protection from moisture and provides long-term stability and reliability.



OUTLINE DIMENSIONS in inches



Cable specifications

Cable length:	12.2m (40 ft)
Excitation +	Red
Excitation -	Black
Output +	Green
Output -	White
Shield	Transparent

Cable screen is not connected to the load cell body.

Capacity	50k	100k
A	6.00	8.50
B	4.25	5.03
C	1.63	2.45
D	1.50	1.75
E	0.10	0.10
F	0.50	0.63
G	1.18	1.25
H	1.49	2.90
M UNF deep	3/4-16 0.56	3/4-16 0.56
J	6.00	12.00

Compression Load Cell

SPECIFICATIONS			
PARAMETER	VALUE		UNIT
	Imperial		
Capacities	50k, 100k		lbs
Accuracy class	Non-Approved		
Rated output (=S)	Model 92: 2±0.002	Model 93: 3±0.003	mV/V
Zero balance	1.0		±% FSO
Combined error	0.0500		±% FSO
Creep error (20 minutes)	0.0300		±% applied load
Temperature effect on zero	0.0090 (0.0010)		±% FSO/5°C (1°F)
Temperature effect on output	0.0135 (0.0015)		±% applied load/5°C (1°F)
Compensated temperature range	-10 to +40 (+14 to +104)		°C (°F)
Operating temperature range	-53 to +93 (-65 to +200)		°C (°F)
Safe load limit	150		% E _{max}
Ultimate load	200		% E _{max}
Safe side load limit	10		% E _{max}
Excitation voltage recommended	10		V
Excitation voltage maximum	15		V
Input resistance	350±3.5		Ω
Output resistance	350±3.5		Ω
Insulation resistance at 50VDC	≥5000		MΩ
Environmental protection	IP68		
Element material	Stainless steel		

FSO—Full Scale Output

Mounting:

Correct mounting of the load cells is essential to ensure optimum accuracy and performance. Further information is available upon request.

All specifications subject to change without notice.

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