

## 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

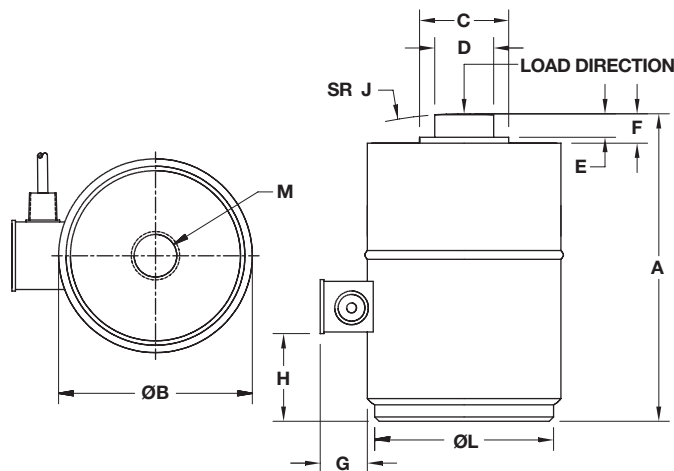
### DESCRIPTION

The 92 canister is designed for compression applications. Its stainless steel construction combined with hermetically sealing allows the 92 to be used in demanding 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<br>0.56 | 3/4-16<br>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 (°F)          |
| Temperature effect on output   | 0.0135 (0.0015)                          | ±% applied load/5°C (°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                                      | % Emax                   |
| Ultimate load                  | 200                                      | % Emax                   |
| Safe side load limit           | 10                                       | % Emax                   |
| 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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