

## Double-Link Beam Load Cell



### FEATURES

- Capacities: 50K to 125Klbs
- Stainless steel construction
- Certified to NTEP class IIIIL 10000 divisions
- Sealing: IP68
- Low profile, self-checking and self-centering
- Optimised design specially for weigh-bridge use
- Optional conduit adapter

### OPTIONAL FEATURE

- FM approved for use in potentially explosive atmosphere

### DESCRIPTION

The 9223 is a hermetically sealed, end loaded, centre supported double ended shear beam.

This product is suitable for a wide range of truck and rail scales. It is designed to use parallel link loading, considered by many weighing experts to be advantageous when compared to other loading techniques.

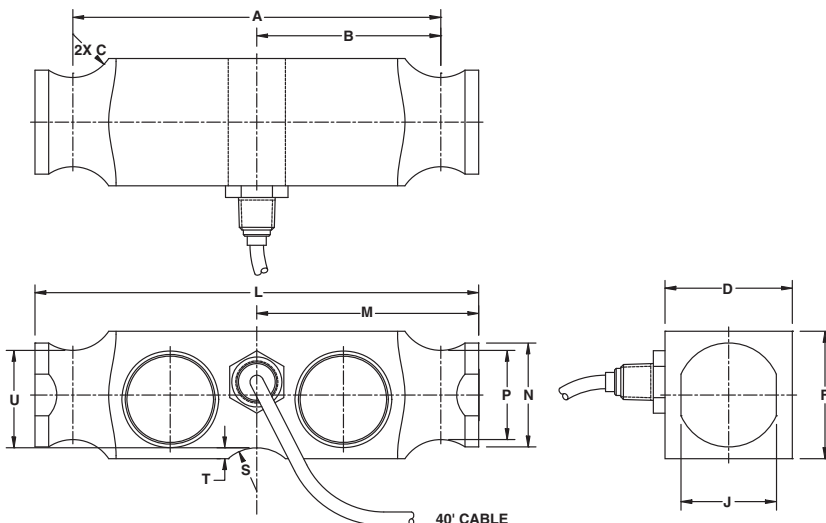
Fully welded stainless steel seals ensure high environmental integrity and provided that additional cable sealing is used, occasional submersion can occur without damage.

These products meet the stringent Weights and Measures requirements throughout USA.

### APPLICATIONS

- Truck scales
- Railroad track scales
- "Legal for Trade" tank, bin and hopper weighing

### OUTLINE DIMENSIONS in inches



#### Cable specifications:

- Cable length: 40 feet
- Excitation + Red
- Excitation - Black
- Output + Green
- Output - White
- Shield Bare

Cable screen is not connected to load cell body. Performance may be affected if load cell cables are shortened.

| Capacity (lb) | 50K, 65K, 100K, 125K |
|---------------|----------------------|
| A             | 8.50                 |
| B             | 4.25                 |
| C RAD         | 1.00                 |
| D             | 2.94                 |
| F             | 2.94                 |
| J             | 2.20                 |
| L             | 10.25                |
| M             | 5.13                 |
| N             | 2.40                 |
| P             | 2.06                 |
| S RAD         | 1.00                 |
| T             | 0.25                 |
| U             | 2.25                 |

**SPECIFICATIONS**

| PARAMETER  | VALUE                    |              | UNIT                      |
|--|--------------------------|--------------|---------------------------|
| Standard capacities ( $E_{max}$ )                  | 50, 65, 100, 125         |              | Klbs                      |
| Accuracy class according to NTEP                   | NTEP IIIIL               | Non-Approved |                           |
| Maximum no. of verification intervals ( $n_{lc}$ ) | 10000                    |              |                           |
| Rated output (=S)                                  | 3                        |              | mV/V                      |
| Rated output tolerance                             | 0.003                    |              | ±mV/V                     |
| Zero balance                                       | 1.0                      |              | ±% FSO                    |
| Combined error                                     | 0.0200                   | 0.0500       | ±% FSO                    |
| Non-repeatability                                  | 0.0100                   | 0.0200       | ±% FSO                    |
| Creep error (20 - 30 minutes)                      | 0.0300                   | 0.0300       | ±% applied load           |
| Temperature effect on minimum dead load output     | 0.0008                   | (0.0140)     | ±% FSO/°F (/5°C)          |
| Temperature effect on sensitivity                  | 0.0010                   | (0.0070)     | ±% applied load/°F (/5°C) |
| 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                                      | 300                      |              | % $E_{max}$               |
| Safe side load limit                               | 100                      |              | % $E_{max}$               |
| Excitation voltage recommended                     | 10                       |              | V                         |
| Excitation voltage maximum                         | 15                       |              | V                         |
| Input resistance                                   | 700±7                    |              | Ω                         |
| Output resistance                                  | 700±7                    |              | Ω                         |
| Insulation resistance                              | ≥5000                    |              | MΩ                        |
| Environmental protection                           | IP68                     |              |                           |
| Element material                                   | Stainless steel          |              | ASTM                      |

FSO-Full Scale Output

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