

## Stainless Steel, Welded Seal Double-Ended Shear Beam Load Cell

### FEATURES

- Rated capacities of 25,000 to 75,000 lbs (higher capacities also available)
- Welded seal, stainless steel construction
- Center supported, external pivot loading
- Integral conduit adaptor
- Trade certified for NTEP Class III: 10000 divisions
- *Sensorgage*™ sealed to IP68 standards
- Factory Mutual System Approved for Classes I, II, III; Divisions 1 and 2; Groups A through G. Also, non-incendive ratings (No barriers!)



65040 Steel



### APPLICATIONS

- Hostile environments:
  - Food and beverage processing
  - Chemical and plastics processing
  - Pharmaceutical and biomedical processing
- Truck scales
- Railroad track scales

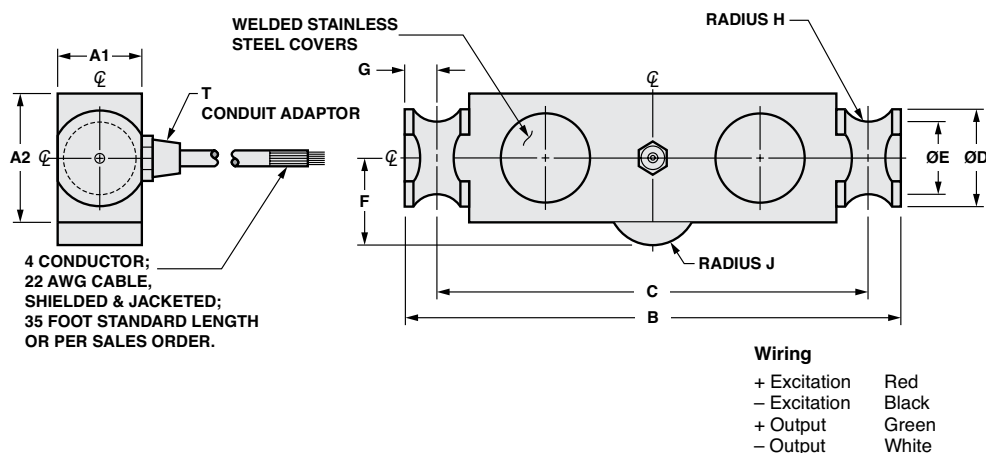
This product is designed for use in certified truck and rail scales and is available in capacities ranging from 25k through 75k lbs. (For higher capacities, please consult factory.)

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 American NTEP standards.

### DESCRIPTION

The 65040W is a mid to high capacity welded stainless steel, double-ended shear beam load cell.

### OUTLINE DIMENSIONS in inches



CAPACITY	A1	A2	B	C	D	E	F	G	H	J	T-THREAD
25k-40k	1.94	2.44	8.25	7.25	2.0	1.63	1.75	0.50	0.50	0.50	1/4-18NPT
50k-75k	1.94	2.94	11.50	10.00	2.2	1.70	2.00	0.75	0.75	1.00	1/2-14NPT

Capacities are in pounds.

### Stainless Steel, Welded Seal Double-Ended Shear Beam Load Cell

SPECIFICATIONS			
PARAMETER	VALUE		UNIT
Rated capacity—R.C. ( $E_{max}$ )	25k, 40k, 50k, 75k*		lbs
NTEP/OIML accuracy class	NTEP III L	Standard	
Maximum no. of intervals (n)	10000 multiple		
$Y = E_{max}/V_{min}$	See NTEP cert. 86-045A1		Maximum available
Rated output—R.O.	3.0		mV/V
Rated output tolerance	0.25		±% mV/V
Zero balance	1.0		±% FSO
Combined error	0.02	0.03	±% FSO
Non-repeatability	0.01	0.015	±% FSO
Creep error (30 minutes)	0.025	0.03	±% FSO
Temperature effect on zero	0.0009	0.0015	±% FSO/°F
Temperature effect on output	0.0008	0.0008	±% of load/°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)
Sideload rejection ratio	500:1		
Safe sideload	100		% of R.C.
Maximum safe central overload	150		% of R.C.
Ultimate central overload	300		% of R.C.
Excitation, recommended	10–15		VDC or VAC RMS
Excitation, maximum	25		VDC or VAC RMS
Input impedance	686–714		Ω
Output impedance	699–707		Ω
Insulation resistance at 50 VDC	>1000		MΩ
Material	17-4 Ph stainless steel**		
Environmental protection	IP68		

\* Consult factory for higher capacities

\*\* Alloy steel available as 65040

FSO—Full Scale Output

All specifications subject to change without notice.

## Disclaimer

ALL PRODUCTS, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Vishay Precision Group, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay Precision Group"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

The product specifications do not expand or otherwise modify Vishay Precision Group's terms and conditions of purchase, including but not limited to, the warranty expressed therein.

Vishay Precision Group makes no warranty, representation or guarantee other than as set forth in the terms and conditions of purchase. **To the maximum extent permitted by applicable law, Vishay Precision Group disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.**

Information provided in datasheets and/or specifications may vary from actual results in different applications and performance may vary over time. Statements regarding the suitability of products for certain types of applications are based on Vishay Precision Group's knowledge of typical requirements that are often placed on Vishay Precision Group products. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

No license, express, implied, or otherwise, to any intellectual property rights is granted by this document, or by any conduct of Vishay Precision Group.

The products shown herein are not designed for use in life-saving or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay Precision Group products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay Precision Group for any damages arising or resulting from such use or sale. Please contact authorized Vishay Precision Group personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.