# Vishay Sensortronics



## **Double-Ended Shear Beam Load Cell**









#### **FEATURES**

- Rated capacities of 25,000 to 125,000 pounds, 10 to 45 metric tons
- Center supported, external pivot loading
- · Integral conduit adaptor
- Trade certified for NTEP Class IIIL:10000 divisions and OIML R60 3000 divisions
- Sensorgage™ sealed to IP67 standards
- Factory Mutual System Approved for Classes I, II, III; Divisions 1 and 2; Groups A through G. Also, non-incendive ratings (No barriers!).

#### **OPTIONAL FEATURES**

- Stainless steel available as 65040W
- Internal pivot loading available as 65040-1122

#### **DESCRIPTION**

The 65040 is a mid to high capacity nickel plated alloy steel, double ended shear beam load cell.

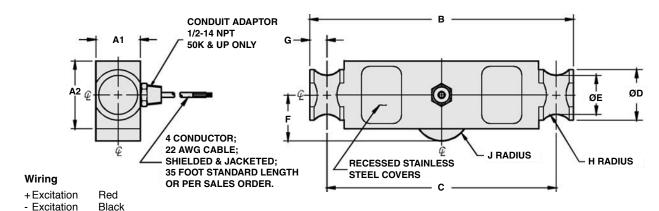
This product is designed for use in certified truck and rail scales and is available in capacities ranging from 25K to 125Klbs.

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.

#### **APPLICATIONS**

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

#### **OUTLINE DIMENSIONS** in inches [mm]



CAPACITY	A1	A2	В	С	D	E	F	G	Н	J
25K - 40K	1.94	2.44	8.25	7.25	2.0	1.63	1.75	0.50	0.50	0.50
50K - 75K	1.94	2.94	11.50	10.00	2.2	1.70	2.00	0.75	0.75	1.00
100K - 125K	2.90	3.86	14.50	12.50	3.2	2.44	2.75	1.00	1.00	1.50
[10t]	[49.3]	[61.9]	[209.6]	[184.2]	[50.8]	[41.4]	[44.5]	[12.7]	[12.7]	[12.7]
[25 - 35t]	[49.3]	[74.7]	[292.1]	[254.0]	[55.9]	[43.2]	[50.8]	[19.1]	[19.1]	[25.4]
[45t]	[73.7]	[98.0]	[368.3]	[317.5]	[81.3]	[62.0]	[69.9]	[25.4]	[25.4]	[38.1]

Capacities are in pounds [kg/t].

Green

White

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+Output

- Output



### Double-Ended Shear Beam Load Cell

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SPECIFICATIONS			
	CDL1-I	 	

PARAMETER		UNIT		
Rated capacity-R.C. (E <sub>max</sub> )	25K, 40	lbs		
riated supporty (1.0. (2 max)		kg/metric tons		
NTEP/OIML Accuracy class	NTEP IIIL	Standard	OIML R60	
Maximum no. of intervals (n)	10000 multiple		3000	
$Y = E_{max}/V_{min}$	See NTEP cert. 86-045A1		6250	Maximum available
Rated output-R.O.		mV/V		
Rated output tolerance		±% mV/V		
Zero balance		±% FSO		
Combined error	0.02	0.03	0.02	±% FSO
Non-repeatability	0.01			±% FSO
Creep error (30 minutes)	0.025	0.03	0.017	±% FSO
Temperature effect on zero	0.0009	0.0015	0.0010	±% FSO/°F
Temperature effect on output	0.0008	0.0008	0.0007	±% of load/°F
Compensated temperature range		°F (°C)		
Operating temperature range		°F (°C)		
Storage temperature range		°F (°C)		
Sideload rejection ratio				
Safe sideload		% of R.C.		
Maximum safe central overload		% of R.C.		
Ultimate central overload		% of R.C.		
Excitation, recommended	ation, recommended 10			Vdc or Vac rms
excitation, maximum 25				Vdc or Vac rms
Input impedance		Ω		
Output impedance		Ω		
Insulation resistance at 50VDC		MΩ		
Material	Nic			
Environmental protection IP67				

Note: \* Stainless steel available as 65040W FSO - Full Scale Output

All specifications subject to change without notice.

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Vishay

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