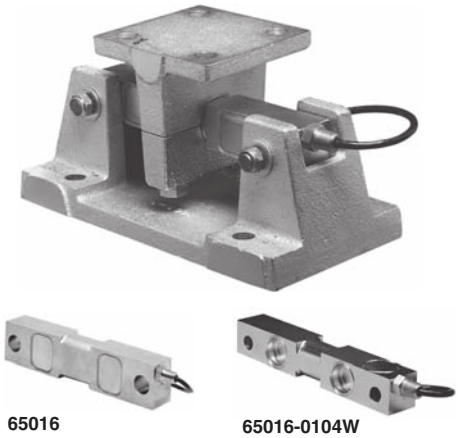
Model 65016-TWA

Sensortronics

VISHAY PRECISION GROUP

Tank Weighing Assembly



65016 65016-0104W

Factory Mutual System Approved

FEATURES

- Capacity ranges of 1000 to 125,000 pounds
- Mounts directly to the floor or structural support
- Self-checking with provisions for thermal expansion and contraction
- Insensitive to side loads and bending moments
- High output - well suited to high deadload/low liveload applications
- Load cells have matched outputs for multi-cell systems
- Excellent combined error and repeatability
- Accuracies exceed 0.1% with agitated loads
- Integral conduit adaptor
- Certified for uniform building code seismic zones 1 thru 4
- *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 FEATURE

- Stainless steel, welded seal assemblies available

DESCRIPTION

The 65016-TWA is a mid to high capacity nickel plated alloy steel weighing assembly.

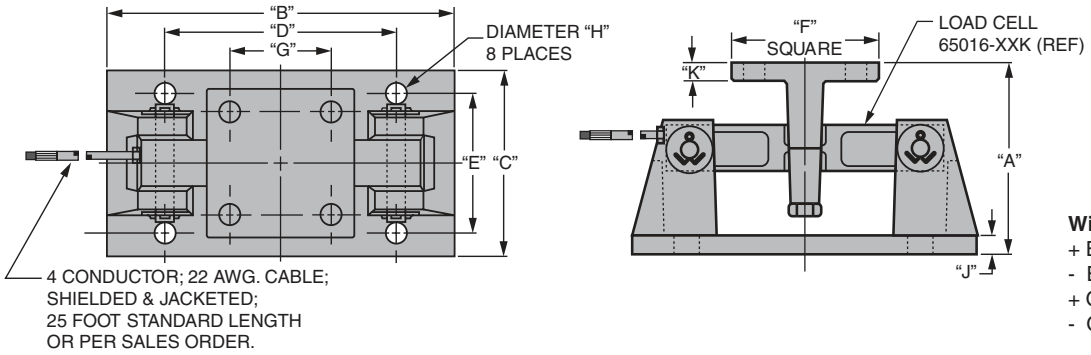
This product is the standard in tank and container weighing due to the Zone 4 earthquake rating. It has high side load rejection, and is able to withstand loads in all directions up to and exceeding its rated capacity without permanent damage or the threat of structural failure. This weighing assembly is also designed to move in the direction of thermal expansion, guaranteeing accurate measurements regardless of conditions. Nickel plating and IP67 rated sealing make this load cell suitable for use in outdoor applications as well as applications that are subject to high pressure wash down. For a higher degree of corrosion and water resistance please see 65016-0104W, the stainless steel and welded seal version of 65016.

This load cell is rated intrinsically safe by the Factory Mutual System (FM); making it suitable for use in potentially explosive environments.

APPLICATIONS

- Tank, bin and hopper weighing
- Silo weighing
- Batching, blending, mixing, level and inventory monitoring

OUTLINE DIMENSIONS in inches



Wiring

+ Excitation	Red
- Excitation	Black
+ Output	Green
- Output	White

CAPACITY	A	B	C	D	E	F	G	H	J	K	WEIGHT
1K - 5K	5.13	9.35	5.00	6.25	3.75	4.00	2.75	0.56	0.90	0.50	22.0
10K - 35K	7.90	12.00	8.00	7.50	6.00	8.00	6.00	0.78	0.75	0.75	73.0
50K - 75K	9.30	16.25	12.00	11.50	9.50	9.00	6.50	0.78	1.00	1.00	172.0
100K - 125K	11.75	23.50	14.00	20.00	12.00	10.00	8.00	1.12	1.50	1.50	250.0

Capacities are in pounds.

SPECIFICATIONS

PARAMETER	VALUE	UNIT
Rated capacity-R.C. (E_{max})	1K, 1.5K, 2.5K, 5K, 10K, 15K, 25K, 35K, 50K, 75K, 100K, 125K	lbs
NTEP/OIML Accuracy class	**Standard**	
Maximum no. of intervals (n)	--	
Rated output-R.O.	3.0	mV/V
Rated output tolerance	0.25	±% mV/V
Zero balance	1.0	±% FSO
Combined error	0.03	±% FSO
Non-repeatability	0.01	±% FSO
Creep error (20 minutes)	0.03	±% FSO
Temperature effect on zero	0.0015	±% FSO/°F
Temperature effect on output	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	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 50VDC	>1000	MΩ
Material load cell	Nickel plated alloy tool steel or stainless steel	
Material assembly	Zinc plated cast steel	
Environmental protection	IP67	

FSO -Full Scale Output

Disclaimer

All product specifications and data are subject to change without notice.

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