

Vishay Tedea-Huntleigh

Alloy Steel Double Ended Shear Beam



FEATURES

- Capacities 10K-75Klbs
- · Low profile design for weigh bridge and silo applications
- · Nickel plated alloy steel construction
- · NTEP approved
- · IP67 protection

OPTIONAL FEATURES

- EEx ia IIC T6 hazardous area approval
- FM approval available

DESCRIPTION

Model 4158 is a double ended shear beam load cell designed for high capacity silo weighing applications.

This high accuracy load cell is designed to meet NTEP standards. When combined with suitable mounting arrangements, this load cell will provide a simple, accurate and reliable weighing system.

Nickel plated and full environmental sealing assure long term reliability. For hazard-

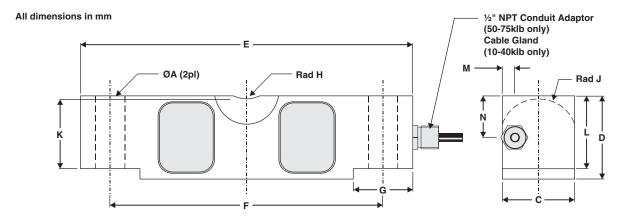
ous environments, this load cell has a EEX ia IIC T6 approved option.

When used in conjunction with Tedea-Huntleigh's custom designed mount, the unit combines ease of installation with both side load and lift-off protection.

APPLICATIONS

- · Weigh bridges
- · Tank and silo weighing

OUTLINE DIMENSIONS in millimeters



CAPACITY	ØA	С	D	Е	F	G	Rad H	Rad J	K	L	М	N
10 - 25Klb	17.3	42.9	49.3	196.9	165.1	35.9	19.1	22.9	41.4	43.2	8.8	13.6
40Klb	20.6	49.3	62.0	260.4	215.9	49.0	25.4	28.5	50.8	53.3	9.0	31.0
50 - 75Klb	26.9	62.0	74.7	260.4	215.9	49.0	25.4	34.8	64.5	67.3	10.4	37.4

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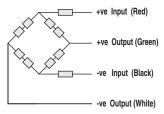


SPECIFICATIONS

PARAMETER	V	UNIT		
Rated capacity-R.C. (E _{max})	10, 20, 25,	Klbs		
NTEP/OIML Accuracy class	NTEP	Non-Approved		
Maximum no. of intervals (n)	10000 IIIL	1000		
$Y = E_{max}/V_{min}$	12000	4000	Maximum available	
Rated output-R.O.		mV/V		
Rated output tolerance	0	±mV/V		
Zero balance		±mV/V		
Zero Return, 30 min.	0.030	0.050	±% of applied load	
Total Error	0.030	0.050	±% of rated output	
Temperature effect on zero	0.0013	0.0067	±% of rated output/°C	
Temperature effect on output	0.0025 0.0040		±% of applied load/°C	
Temperature range, compensated	-10	°C		
Temperature range, safe	-30	°C		
Maximum safe central overload		% of R.C.		
Ultimate central overload		% of R.C.		
Excitation, recommended		Vdc or Vac rms		
Excitation, maximum		Vdc or Vac rms		
Input impedance	78	Ohms		
Output impedance	7	Ohms		
Insulation resistance	>	Mega-Ohms		
Cable length		m		
Cable type	6 wire, braided, PV	Standard		
Construction	Nickel pla			
Environmental protection				

^{* 10}Klbs is not approved by NTEP.

Wiring Schematic Diagram



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