

Alloy Steel Double-Ended Shear Beam

FEATURES

- Capacities 10k–75k lbs
- Low profile design for weigh bridge and silo applications
- Nickel plated alloy steel construction
- NTEP approved
- IP67 protection
- **Optional**
 - EEx ia IIC T6 hazardous area approval
 - FM approval available

APPLICATIONS

- Weigh bridges
- Tank and silo weighing

DESCRIPTION

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

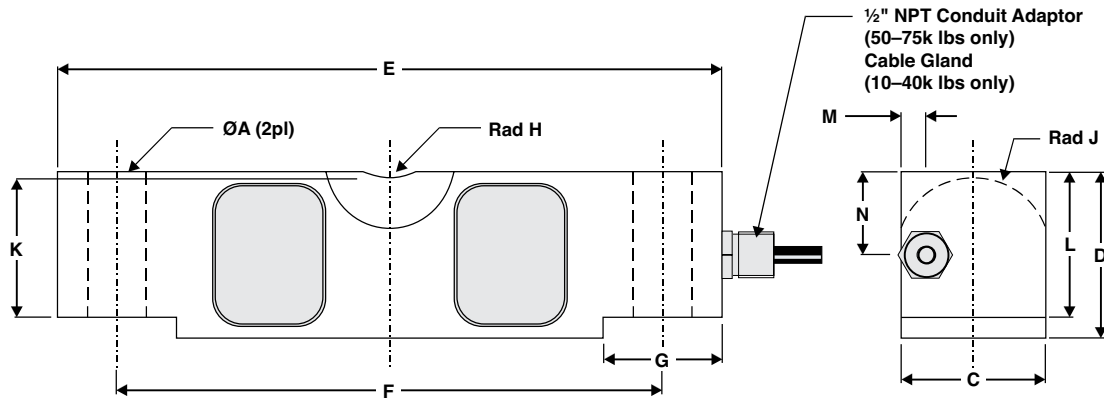
This high accuracy load cell is designed to meet NTEP standards. When combined with suitable mounting arrangements, this load cell will provide a simple, accurate and reliable weighing system.



Nickel plated and full environmental sealing assure long-term reliability. For hazardous environments, this load cell has a EEx ia IIC T6 approved option.

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

OUTLINE DIMENSIONS in millimeters



CAPACITY	ØA	C	D	E	F	G	RadH	Rad J	K	L	M	N
10–25k lbs	17.3	42.9	49.3	196.9	165.1	35.9	19.1	22.9	41.4	43.2	8.8	13.6
40k lbs	20.6	49.3	62.0	260.4	215.9	49.0	25.4	28.5	50.8	53.3	9.0	31.0
50–75k lbs	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	VALUE		UNIT
Rated capacity – R.C. (E_{max})	10, 20, 25, 40, 50, 60, 75 ⁽¹⁾		Klbs
NTEP/OIML accuracy class	NTEP	Non-Approved	
Maximum no. of intervals (n)	10000 IIIIL	1000	
$Y = E_{max}/V_{min}$	12000	4000	Maximum available
Rated output – R.O.	3.0		mV/V
Rated output tolerance	0.075		±mV/V
Zero balance	0.09		±mV/V
Zero return, 30 min.	0.030	0.050	±% of applied load
Total error	0.30	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 to 40		°C
Temperature range, safe	-30 to +70		°C
Maximum safe central overload	150		% of R.C.
Ultimate central overload	300		% of R.C.
Excitation, recommended	10		VDC or VAC RMS
Excitation, maximum	15		VDC or VAC RMS
Input impedance	780±20		Ω
Output impedance	705±5		Ω
Insulation resistance	>1000		MΩ
Cable length	7.5		m
Cable type	6-wire, braided, PVC, dual floating screen		Standard
Construction	Nickel-plated alloy steel		
Environmental protection	IP67		

⁽¹⁾10k lbs is not approved by NTEP

All specifications subject to change without notice.

Wiring Schematic Diagram

