Double-Ended Shear Beam Load Cell

FEATURES

- Capacities 40 klb. & 50 klb.
- Coated Alloy Steel construction (Stainless Steel Available)
- Trade certified for NTEP class IIIL, 10000 divisions.
- IP67 protection



OPTIONAL

FM Approved versions for use in potentially explosive atmospheres

APPLICATIONS

- Truck scales
- Railroad track scales
- Precision tank, bin, and silo weighing.

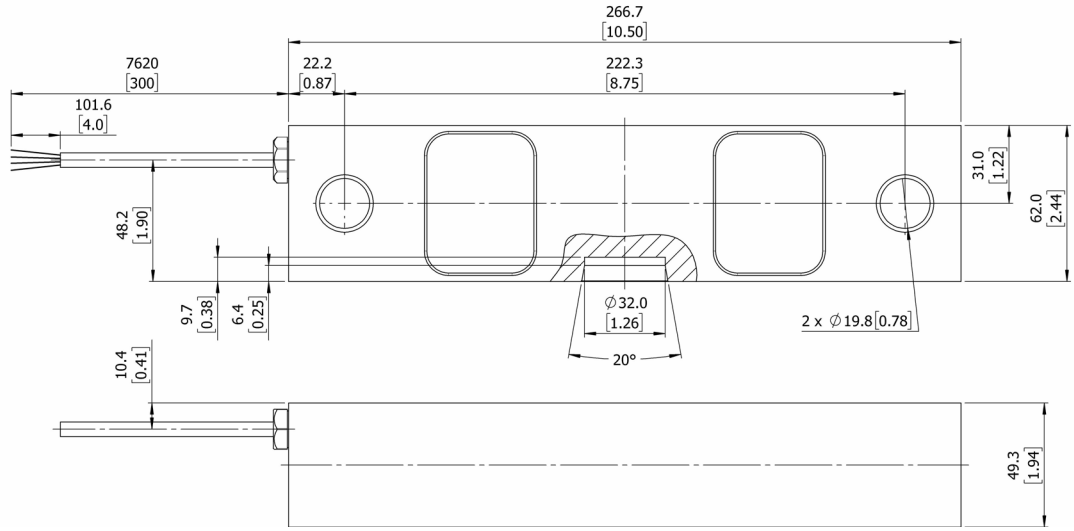
DESCRIPTION

The Model 65061 is a mid to high capacity, Zinc or Nickel coated Alloy Steel, double ended shear beam load cell.

This product is designed for use in certified truck and railScales and is available in capacities 40 klb. and 50 klb.

This load cell is optionally rated intrinsically safe by the Factory Mutual System (FM Approved for USA and Canada) making it suitable for use in potentially explosive environments. This load cell is certified for legal for trade applications by NIST to NTEP class IIIL requirement.

OUTLINE DIMENSIONS in mm [inch]



The document and the products described herein are subject to change from time to time without notice and are also subject to specific disclaimers. Please visit https://vpgsensors.com/disclaimer for more information.

Double-Ended Shear Beam Load Cell

SPECIFICATIONS		
PARAMETER	**VALUE**	**UNIT**
Rated capacity—R.C. (E_{max})	40, 50	klb.
NTEP/OIML accuracy class (1)	IIIL	
Maximum no. of intervals (n)	10000	
Y = Emax/Vmin	15000*	
Rated output - R.O.	3.0	mV/V
Rated output tolerance	0.0075	±mV/V
Zero balance	0.0300	±mV/V
Creep, 20 min.	0.03	±% of applied load
Combined error (per NTEP)	0.03	±% of rated output
Temperature effect on zero	0.0027	±% of rated output/°C
Temperature effect on output	0.00144	±% of applied load/°C
Temp. range, compensated	–10 to +40	°C
Temp. range, safe & storage	–20 to +65	°C
Maximum safe central overload	150	% of R.C.
Ultimate central overload	300	% of R.C.
Excitation, recommended	10	VDC or VAC RMS
Excitation, range	5…15	VDC or VAC RMS
Input impedance	686…714	Ω
Output impedance	699…707	Ω
Insulation resistance	>1000	MΩ @50 VDC
Cable length	7.62 (25.0)	m (ft)
Cable type	4 wire, shielded, PU jacket, floating shield	Standard
Construction	Coated Alloy Steel (Stainless Steel available)	
Environmental protection	IP67	

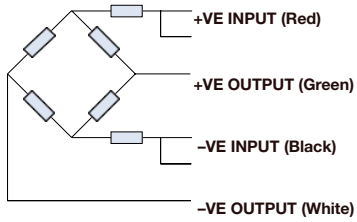
* 65% utilization.

All specifications are subject to change without notice.

Optional Certification Marking:

FM Approval markings (USA and Canada)
IS Class I, II, III, Division 1, Groups A, B, C, D, E, F and G;
NI Class I, Division 2, Groups A, B, C, and D,
DIP, Class II, III, Division 2, Groups F and G;
T4;
Ta = -25°C to +66°C

WIRING SCHEMATIC DIAGRAM (Balanced bridge configuration)



The document and the products described herein are subject to change from time to time without notice and are also subject to specific disclaimers. Please visit https://vpgsensors.com/disclaimer for more information.