## Vishay Tedea-Huntleigh



# Hermetically Sealed Single Point Load Cell



#### DESCRIPTION

Model 1510 is a high accuracy single point load cell ideally suited to industrial applications which undergo regular washdown, typically platforms, wall scales and other process weighing applications in the food industry.

Hermetically sealed against moisture, the all welded construction of the 1510 in combination with a polyurethane dual shielded cable, enables continuous

### FEATURES

- Capacity range: 100 500kg
- Stainless steel construction
- Single point 600 x 600mm platform
- OIML R60 and NTEP approved
- IP68 protection

operation in harsh environments whilst

maintaining a high operating specification.

The two additional sense wires feed back

the voltage reaching the load cell.

Complete compensation of changes in

lead resistance due to temperature change

and/or cable extension, is achieved by

feeding this voltage into the appropriate

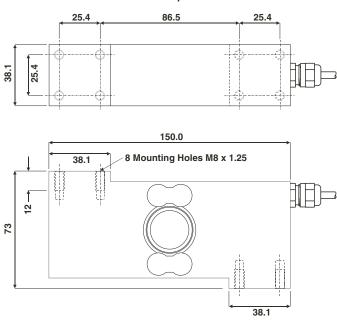
#### **OPTIONAL FEATURES**

- EEx ia IIC T6 hazardous area approval
- FM approval available
- Platform size 600 x 800mm available

#### APPLICATIONS

- · Food industry platforms
- Marine and hybrid scales
- Process weighing hoppers
- Harsh environment

#### **OUTLINE DIMENSIONS** in millimeters



#### Outline Dimensions All Capacities in mm.

electronics.

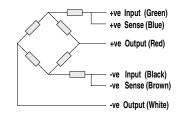


### SPECIFICATIONS

PARAMETER	<b>VALUE</b> 100, 250, 500				UNIT
Rated capacity-R.C. (Emax)					kg
NTEP/OIML Accuracy class	NTEP	Non-Approved	C3*	C4*	
Maximum no. of intervals (n)	5000 single	1000	3000	4000	
$Y = E_{max}/V_{min}$	11425	4000	12000	12000	Maximum available
Rated output-R.O.	2.0				mV/V
Rated output tolerance	0.2				±mV/V
Zero balance	0.2				±mV/V
Zero Return, 30 min.	0.0170	0.0060	0.0170	0.0130	±% of applied load
Total Error	0.0200	0.0300	0.0200	0.0150	±% of rated output
Temperature effect on zero	0.0023	0.010	0.0014	0.0011	±% of rated output/°C
Temperature effect on output	0.001	0.0040	0.0010	0.0008	±% of applied load/°C
Eccentric loading error	0.0016	0.0035	0.0011	0.0008	±% of rated load/cm
Temperature range, compensated	-10 to +40				°C
Temperature range, safe	-20 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	380±10				Ohms
Output impedance	350±3				Ohms
Insulation resistance	>2000				Mega-Ohms
Cable length	3				m
Cable type	6 wire, braided, Polyurethane, dual floating screen				Standard
Construction	Stainless steel				
Environmental protection	IP68				
Recommended torque	22.0				N*m

35% utilization

#### Wiring Schematic Diagram



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