Tedea-Huntleigh



Tension Compression Load Cells



ATEX (Ex)

FEATURES

- · Capacities 50 1000kg
- Nickel plated alloy steel (615) or stainless steel (616) construction

52

40.0

- IP67 protection
- · For use in tension or compression
- 6 wire (sense) circuit
- Model 615 output standardised to ±0.1%

OPTIONAL FEATURE

· EEx ia IIC T4 hazardous area approval

DESCRIPTION

Models 615 and 616 are tensioncompression load cells which share the Humidity resistant same dimensions. coating and shielded cables enable these load cells to be used in harsh environments while maintaining their operating specifications.

The additional sense wires compensate for changes in lead resistance due to temperature change and/or cable extension.

Ideally suited for lever conversions, hanging scales, force measurement and a wide range of other industrial applications.

Model 616 is made from stainless steel and has bonded covers for additional protection (except 50kg). An alternative lower cost version is made from alloy steel (model 615), with rivetted covers.

APPLICATIONS

- Hopper (Tank weighing)
- Hybrid scales
- Belt weighing
- Lever arm conversions
- Material testing machines

26.0

18.0

- Vibrations filling equipment
- Dynamometers

25.0

30.0

80.0

M12 x 1.75 or 1/2"-20 UNF

2PL

OUTLINE DIMENSIONS in mm

Dimensions - Model 616 - except 50kg 62.1 52 62.1 18.0 25.1 40.0 0 80.0 29.8 0 M12 x 1.75 or 1/2"-20 UNF 2PL 22.0

All dimensions in mm

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Dimensions - Models 615 and 616 - 50kg only



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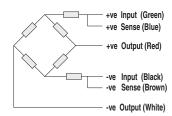
SPECIFICATIONS

PARAMETER	VALU	JF	UNIT
Accuracy class	Non-Approved G		
Maximum no. of intervals (n)	1000	3000	
Rated capacity-R.C. (E _{max})	50, 100, 150, 200, 300, 500, 750, 1000*		kg
Rated output-R.O.	2.0		mV/V
Rated output tolerance	0.002		±mV/V
Zero balance	0.2		±mV/V
Zero Return, 30 min.	0.05	0.017	±% of applied load
Total Error (per OIML R60)	0.05	0.02	±% of rated output
Temperature effect on zero	0.01	0.004	±% of rated output/°C
Temperature effect on output	0.003	0.0012	±% of load/°C
Temperature range, compensated	-10 to +40		0°C
Temperature range, safe	-30 to +70		<u> </u>
Maximum safe central overload	150		% of B.C.
Ultimate central overload	300		% of B.C.
Excitation, recommended	10		Vdc or Vac rms
Excitation, maximum	15		Vdc or Vac rms
Input impedance	400±20		Ohms
Output impedance	350±3		Ohms
Insulation resistance	>2000		Mega-Ohms
Cable length	3.0		m
Cable type	6 wire, PVC, single floating screen**		Standard
Construction	615 - alloy steel, 616 - stainless steel		
Environmental protection	IP67		

* 616 does not include 50kg

** 616 has polyurethane jacket braided cable with dual floating screen

Wiring Schematic Diagram (Balanced bridge configuration)





Vishay Precision Group

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