Model 614

Vishay Tedea-Huntleigh





FEATURES

- · Capacities 50 500kg
- Anodized aluminum construction
- OIML R60 approved
- IP67 protection
- For use in tension or compression
- 6 wire (sense) circuit

OPTIONAL FEATURE

• EEx ia IIC T4 hazardous area approval

DESCRIPTION

Model 614 is a tension-compression load cell. Humidity resistant coating and shielded cables enable this load cell to be used in harsh environments while maintaining its 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 614 is made from aluminum.

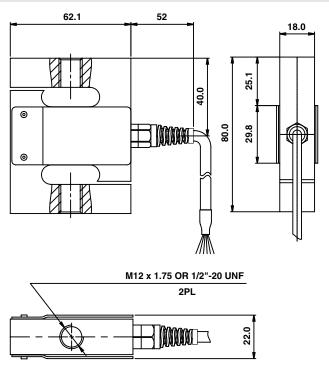
APPLICATIONS

• Hopper (Tank weighing)

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- Hybrid scales
- · Belt weighing
- Lever arm conversions
- Material testing machines
- Vibrations filling equipment
- Dynamometers

OUTLINE DIMENSIONS in mm



All dimensions in mm



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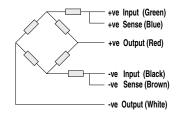
SPECIFICATIONS

VALUE			UNIT
50, 100, 150, 200, 300, 500		kg	
Non-Approved	C3*		
1000	3000		
2500	8000	12000**	
2.0		mV/V	
0.2		±mV/V	
0.02		±mV/V	
0.05	0.017		±% of applied load
0.05	0.020		±% of rated output
0.01	0.0023		±% of rated output/°C
0.003	0.0012		±% of load/°C
-10 to +40		°C	
-30 to +70		°C	
150		% of R.C.	
300		% of R.C.	
10		Vdc or Vac rms	
15		Vdc or Vac rms	
415±15		Ohms	
350±3		Ohms	
>2000		Mega-Ohms	
3.0		m	
6 wire, braided PVC, dual floating screen		Standard	
Plated (Anodize) aluminum			
IP67			
	Non-Approved 1000 1000 2500 0.05 0.05 0.01 0.003	50, 100, 150, 200, 300, 500 Non-Approved C3 1000 300 2500 8000 2.0 0.2 0.02 0.02 0.05 0.00 0.01 0.00 0.03 0.00 0.01 0.00 0.03 0.00 10 to +40 -30 to +70 150 300 10 15 415±15 350±3 >2000 3.0 6 wire, braided PVC, dual floating Plated (Anodize) aluminum	50, 100, 150, 200, 300, 500 Non-Approved C3* 1000 3000 2500 8000 12000** 2.0 0.2 0.2 0.02 0.017 0.020 0.05 0.017 0.0023 0.01 0.0023 0.0012 0.03 0.0012 -10 to +40 -30 to +70 150 300 10 15 300 15 350±3 >2000 3.0 6 wire, braided PVC, dual floating screen 3.0 Plated (Anodize) aluminum

* 50% utilization

** Y=8000 for capacities 50-200kg. Y=12000 for capacities 300-500kg

Wiring Schematic Diagram (Balanced bridge configuration)



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