



- Capacities 50 - 1000 kg
- Anodized Aluminium (614) or Nic Plated Alloy Steel (615) or Stainless Steel (616) construction
- IP67 protection
- For use in tension or compression
- 6 wire (sense) circuit
- Model 615 output standardised to  $\pm 0.1\%$

**M**odels 614, 615 and 616 are tension-compression load cells which share the same dimensions. Humidity resistant 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). Alternative lower cost versions are made from aluminium (model 614) or alloy steel (model 615), with rivetted covers.

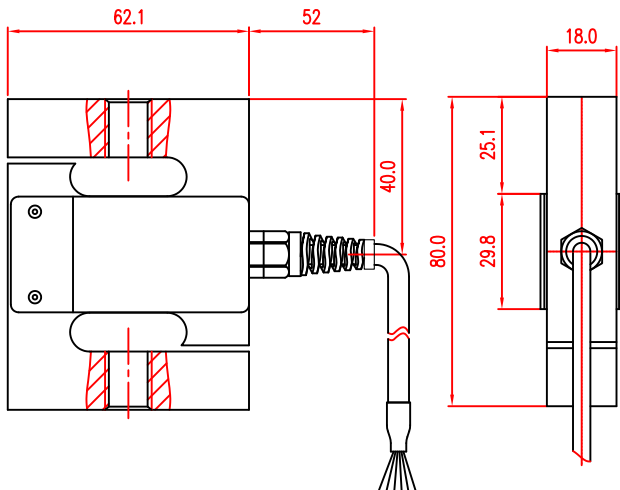
Model 614 from 50 - 300 kg and models 615/616 from 50 - 1000 kg.

# 614 / 615 / 616 SPECIFICATION

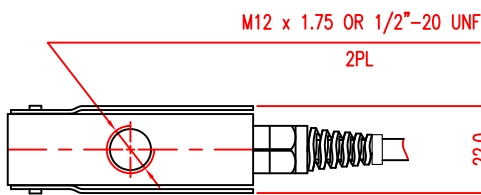
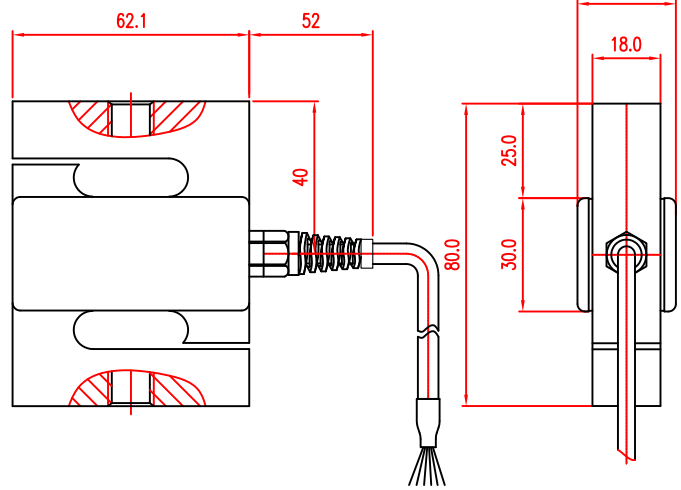
GRADE	E	F	G	UNITS
Rated Capacities	50, 100, 150, 200, 300, 500*, 750*, 1000*			kg
Rated Output	2.0 ± 10% (2.0 ± 0.1% for Model 615)			mV/V
Total Error	0.05	0.03	0.02	±% of Rated Output
Zero Return after 30 mins	0.05	0.03	0.017	±% of Applied Load
Temperature Effect : On Output	0.003	0.0014	0.0012	±% of Applied Load/°C
: On Zero	0.01	0.006	0.004	±% of Rated Output/°C
Zero Balance	10			±% of Rated Output
Temperature Range : Operating	-30 to +70			°C
: Compensated	-10 to +45			°C
Safe Overload	150			% of Rated Capacity
Ultimate Overload	300			% of Rated Capacity
Excitation : Recommended	10			Volts AC or DC
: Maximum	15			Volts AC or DC
Input Impedance	Model 614: 415 ±20, Model 615: 400 ±20, Model 616: 385 ±15			Ohms
Output Impedance	350 ± 3			Ohms
Insulation Impedance	> 2000			MegaOhms
Deflection at Rated Capacity	< 0.4			mm
Weight	Model 614 : 0.4		Model 615/616 : 0.58	kg
Construction	614: Anodised aluminium 615: Nickel plated alloy steel 616: Stainless steel			
Environmental Protection	IP67			
Cable	Model 614/615 : 3 metres, 6-wire, 26 AWG, braid shield, PVC jacket Model 616 : 3 metres, 6-wire, 26 AWG, braid shield, polyurethane jacket			

\* Not available in model 614

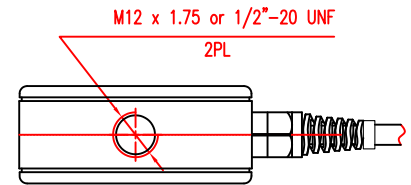
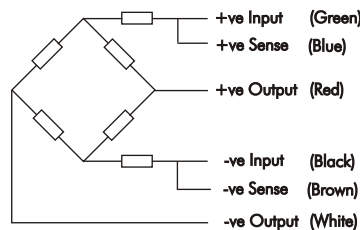
## Dimensions - Models 614, 615 and 616-50 kg only



## Dimensions - Model 616 except 50 kg



## Wiring Schematic Diagram (Balanced bridge configuration)



All dimensions in mm

Due to Tedeo-Huntleigh's policy of continuous development, these specifications are subject to change without notice. Tedeo-Huntleigh is the world's leading manufacturer of high quality, high accuracy load cells in volume production. Our manufacturing facilities are ISO 9000 registered. For further details please contact Tedeo-Huntleigh or your local distributor, or visit our website at:

<http://www.tedeo-huntleigh.com>

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