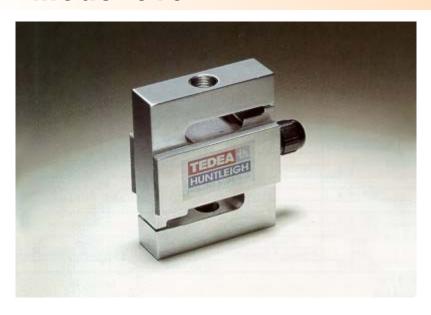
## Model 616

### S-Type Load Cells



#### **Features**

- Capacities: 100 1000 kg (220 1100 lbs)
- Stainless steel construction
- Tension or compression applications
- Suitable for hanging scales
- Ideal for conversion of mechanical to electronic scales
- Meets Handbook 44, OIML R60 and other international standards

Model 616 tension compression load cells are available in stainless steel.

Model 616 features stainless steel construction, IP67 environmental protection, 6 wire (sense) circuit, and a unique humidity-resistant protective coating. It is ideal for harsh environmental, high accuracy applications.

Ideally suited for lever conversions, hopper/tanks and vibratory feeders general process weighing and force measurement applications.

Tedea-Huntleigh, with models ranging from 2 to 50,000 is the world's largest manufacturer of precision load cells.



#### **Contact Info**

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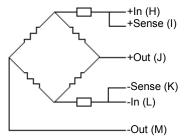
### S-Type Load Cells

# Model 616

GRADE	Е	F	G*	UNITS
Rated Capacity	100, 150, 200, 300, 500, 750, 1000		kg	
Rated Output**	2 ± 0.10%		mV/V	
Total Error***	1500	2000	3000	Divisions
Total Error	0.050	0.030	0.020	±% of Load
Creep at Rated Capacity / Zero Return After 30 Minutes	0.050	0.030	0.016	±% of Load
Zero Balance	10		±% of Rated Output	
Temperature Range: Operating	-30 to +70		°C	
Temperature Range: Compensated	-10 to +45		°C	
Temperature Effect: On Output	0.0040	0.0015	0.0012	±% of Load / °C
Temperature Effect: On Zero	0.0080	0.0030	0.0027	±% of Rated Output / °C
Maximum Overload at the Center Loading Point	150		% of Rated Capacity	
Ultimate Overload at the Center Loading Point	300		% of Rated Capacity	
Excitation: Recommended	10		Volts AC or DC	
Excitation: Maximum	15		Volts AC or DC	
Input Impedance	385 ± 15		Ohms	
Output Impedance	350 ± 3		Ohms	
Insulation Resistance	>5000		Mega Ohms	
Deflection at Rated Capacity	<0.4		mm	
Weight	0.58			kg
Construction	Stainless Steel			
Cable	3 Meter, 6 Conductor, Polyurethane Jacket, Dual Floating Shield			
Environmental Protection	IP 67			
Approvals	OIML R60			

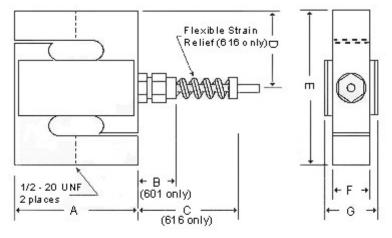
# \* G Class available on Model 616 > 300 kg only \*\* All accuracy specifications maintained when 150% of nominal load is applied for 3 mV/V output \*\*\* Nonlinearity, hysteresis, repeatability, and output temperature effect according to OIML R60 and NIST H-44

### **Balanced Temperature Compression**



The two "sense" wires (616 only) sample the bridge supply voltage at the load cell. Complete compensation of change in the lead wire resistance, due to temperature change and/or cable extension, is achieved by feeding this voltage into appropriate electronics.

### **Outline Dimensions All Capacities (in mm)**



Dimensions				
Model	616			
Α	60.35			
В				
С	50.81			
D	39.87			
E	80			
F	19.05			
G	27.43			

Wiring Diagram				
Model	601	616		
Н	Red	Green		
ı		Blue		
J	Green	Red		
K		Brown		
L	Blue	Black		
М	Yellow	White		
IVI	reliow	vviille		