Model 619

S-Type Load Cells

Features

- Capacities: 1500 kg - 5000 kg (1,500 lbs – 11,025 lbs)
- Nickel plated alloy steel
- Tension or compression applications
- IP 67 protection
- 6 wire (sense) circuit
- Output standardized to +/- 0.1%

Model 619 is a tension-compression load cell made from nickel plated alloy steel and is suitable for use in a wide range of weighing, process weighing, force measurement and industrial process control applications.

Proctected to meet IP 67 requirements, the construction of the 619 load cell allows its use in most industrial process applications. For IP 68 requirements, select the fully-welded stainless steel model 620, which shares the same dimensions as model 619.

The additional sense wires compensate for changes in lead resistance due to temperature change and/or cable extension. Complete compensation of changes in lead resistance is achieved by feeding this voltage into appropriate electronics.

Tedea-Huntleigh is the world's largest manufacturer of precision load cells.

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EXCELLENCE IN LOAD CELLS

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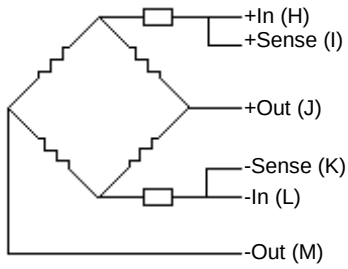
Model 601

S-Type Load Cells

GRADE	E	F	G*	UNITS
Rated Capacity	50, 100, 250, 500			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	415 ± 15			Ohms
Output Impedance	350 ± 3			Ohms
Insulation Resistance	>1000			Mega Ohms
Deflection at Rated Capacity	<0.4			mm
Weight	0.41			kg
Construction	Aluminum			
Cable	3 Meter, 4 Conductor, PVC Jacket, Floating Shield			
Environmental Protection	IP 65			
Approvals	OIML R60			

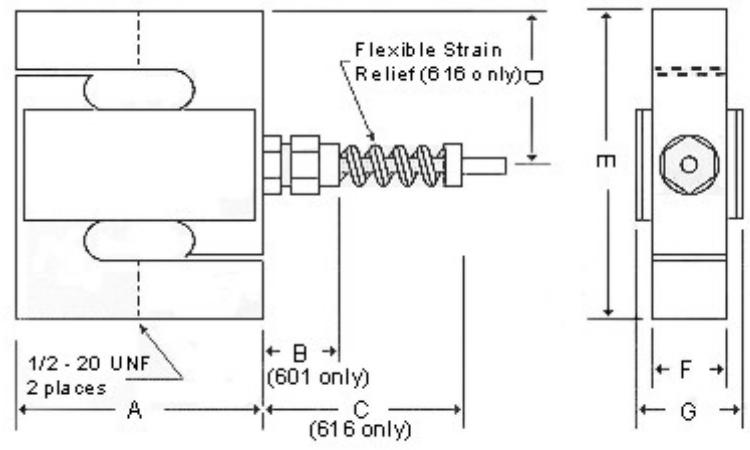
* G Class available on Model 616 > 300 kg only
** All accuracy specifications maintained when 150% of nominal load is applied for 3 mV/V output
*** Nonlinearity, hysteresis, repeatability, and output temperature effect according to OIML R60 and NIST H-44

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	601
A	69.85
B	20.32
C	--
D	38.1
E	76.2
F	25.4
G	34.29

Wiring Diagram

Model	601	616
H	Red	Green
I	--	Blue
J	Green	Red
K	--	Brown
L	Blue	Black
M	Yellow	White