## Model 620

### Vishay Tedea-Huntleigh

# S-Type Stainless Steel Load Cell



### **FEATURES**

- Capacity range: 500 to 5000kg
- Stainless Steel construction
- · sealed by welding to IP68
- · S-Type design for use in tension and compression
- OIML approved to 3000d (500-5000kg)
- NTEP approved to 5000d (500-2000kg)
- Choice of mounting threads Metric or Unified systems
- Six Wire Cable (sense circuit)

#### **OPTIONAL FEATURES**

- EEx ia IIC T6-ATEX hazardous area approval
- Class I, II, III Division 1 FM hazardous area approval

#### DESCRIPTION

Model 620 is a Stainless Steel S-Type Load Cell. Its Welded Sealing combined with high accuracy, make this Load Cell ideally suited for a wide range of applications of Process Weighing and Force Measurements.

Approvals include OIML C3 (3000d); NTEP 3000d single and NTEP 5000d Multiple.

Also available are versions approved for hazardous areas - ATEX II 1 GD EEx ia T6

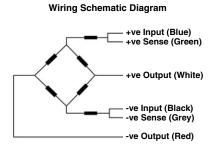
for Europe and FM I, II, III Division 1 for the USA.

The six-wire cable includes two sense wires that compensate for changes in lead resistance due to temperature changes and cable extension.

Model 620 offers a choice of bolt threads in Metric or Unified systems - see table below.

- **APPLICATIONS**
- Hopper (Tank Weighing)
- Hybrid Scales
- Belt Weighing
- · Lever arm conversions
- Material testing machines
- Vibrations filling equipment
- Dynamometers

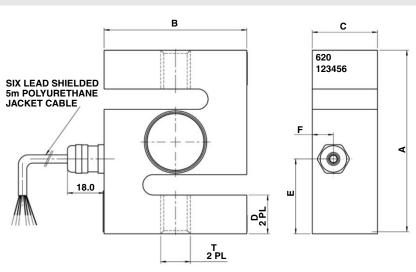
#### **OUTLINE DIMENSIONS** in mm



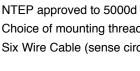
Thread	Thread Type "T' By Capacity					
Capacity	Metric	Unified				
500 kg	M12x1.75	1/2-20 UNF				
1000 kg	M16 x 2.0	1/2-20 UNF				
2000 kg	M16 x 2.0	3/4-16 UNF				
5000 kg	M24 x 2.0	1 - 12 UNF				

Optional Rod End Bearings for use with all Vishay Transducers S-Type load cells are available - consult VT Sales office

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Capacity	A	В	С	D	E	F
500, 1000, 2000 kg	90	70	32	19	36.6	10.4
5000 kg	120	100	45	26	60	13.8



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### SPECIFICATIONS

PARAMETER		VAL	UNIT			
Rated capacity-R.C. (E <sub>max</sub> )		500, 1000, 2	kg			
NTEP/OIML Accuracy class	NTEP	Non-Approved	C2/50	C3/50	-	
Maximum no. of intervals (n)	class IIIL	1000	2000*	OIML 3000		
Y = E <sub>max</sub> /V <sub>min</sub>	5000	2000	4000	6000		
Rated output-R.O.		2.	mV/V			
Rated output tolerance		0.00	±mV/V			
Zero balance		0.0	±mV/V			
Total Error (per OIML R60)	0.0200	0.0500	0.0300	0.0200	±% of R.O.	
Zero Return, 30 min.	0.0250	0.0500	0.0250	0.0170	±% of applied load	
Temperature effect on zero	(0.0010)	0.0070	0.0020	0.0023	±% of R.O./°C (/°F)	
Temperature effect on output	(0.0008)	0.0400	0.0014	0.0012	±% of applied load/°C (/°F)	
Temperature range, compensated		-10 to	°C			
Temperature range, safe		-30 to	C°			
Maximum safe static overload		15	% of R.C.			
Excitation, recommended		1(	Vdc or Vac rms			
Excitation, maximum		1	Vdc or Vac rms			
Input impedance		400:	Ohms			
Output impedance		350	Ohms			
Insulation resistance		>50	Mega-Ohms			
Construction	Stainless steel					
Environmental protection						

\* 5000kg capacity is not approved by NTEP

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