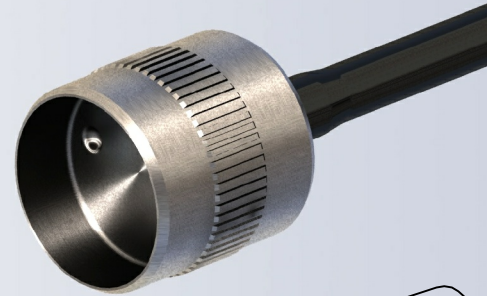


Insert Force Sensor is designed to be fixed to the leg of a tank or silo or vessel. It is ideal for measurement of level and is used in cases where the silo is very large or when it is difficult to place the tank on standard load cells.



**FEATURES**

- Capacity ranging from hundreds of kg to thousands of t, all with the same sensor; depending on your structure.
- Simple press fit mounting.
- Easily installable in existing structures.
- Stainless steel construction.
- Hermetically sealed.
- Minimal temperature effect.
- Measures compression, tension, shear, bending and torsion.
- Easy adaptable in OEM products.

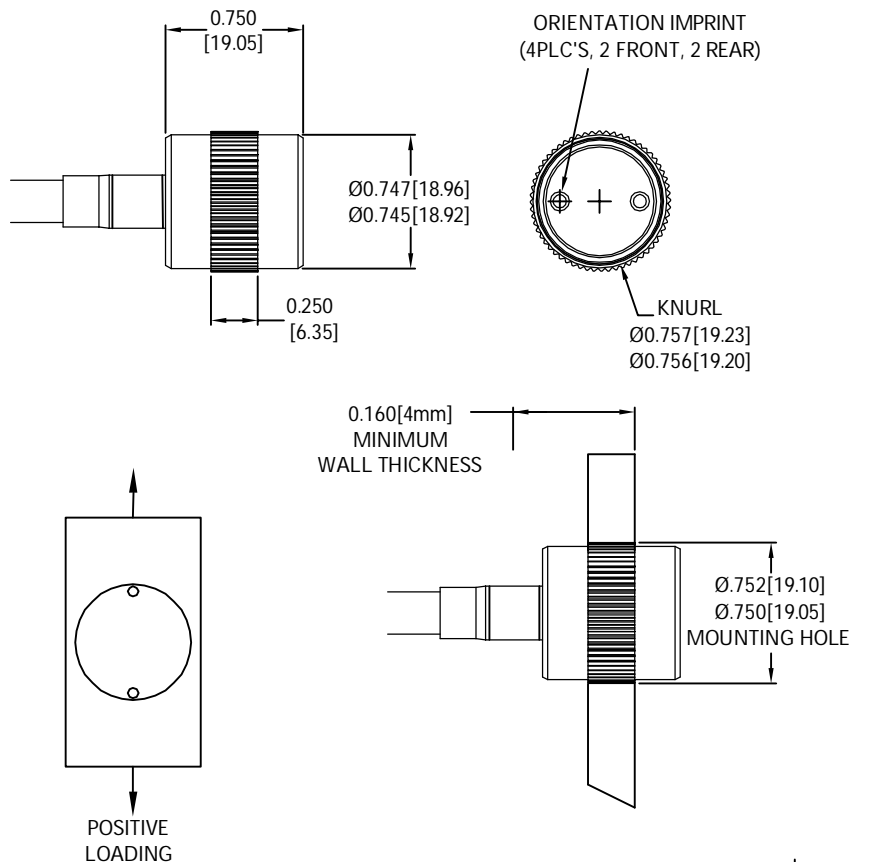
**APPLICATIONS**

- Silo weighing systems.
- Tank weighing systems.
- Agricultural equipment.
- Lift trucks.
- Structural load measuring.
- Crane weighing.
- Crane overload protection sensing.
- Rolling mill sensing.
- Machine tool wear sensing.

**OPTIONS**

- 10m length cable.

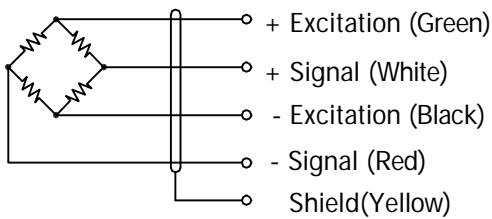
**OUTLINE DIMENSIONS**



specialty sensors  
**INSERT SENSOR**  
**8011**



**WIRING**



Cable : 24 AWG, 4-Conductor cable with shield.

**SPECIFICATIONS**

Model		8011	
Output(nominal)			
	Steel in compression/tension	2900 psi, output $\geq$ 0.2mV/V	
	Steel in shear	1450 psi, output $\geq$ 0.2mV/V	
Non-linearity		%FS	$\leq \pm 1$
Hysteresis		%FS	$\leq \pm 0.5$
Non- repeatability		%FS	$\leq \pm 0.1$
Zero Balance		%FS	$\leq \pm 0.05$
Temperature effect			
	Zero	mV/V/°F	$\leq \pm 0.0002$
	Output	%Load/°F	$\leq \pm 0.02$
Atmospheric effect on zero balance		%FS	$\pm 1.0@13-16$ psi
Temperature range			
	Storage	°C	-10... +40
	Operating	°C	-20... +65
Terminal resistance			
	Input resistance	$\Omega$	700 $\pm$ 20
	Output resistance	$\Omega$	700 $\pm$ 20
Excitation voltage		VDC	15
Insulation resistance@50VDC		M $\Omega$	$\geq 5000$
Fatigue life		10° Full cycles	
Cable length		m	0.5
Seal type		IP68	
Element material		17-4ph	

**PART NUMBERS**

Capacity (psi)	Part #
2900 compression/tension, 1450 shear	8011-000-00

Dimensions and specifications subject to change without notice



**Pioneering Measured Solutions**

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