

**SENTRAN**

WorkSheet

Innovative Measurement Solutions

LOAD PIN WORKSHEET

***REQUIRED FIELDS**

*CONTACT: _____ *PHONE: _____

*COMPANY: _____ *EMAIL: _____

SENTRAN specializes in non-standard, measurement solutions, particularly for Load Pins where specialized solutions are most often required to meet the requirements. SENTRAN Load Pins are instrumented in an (internal) bore, utilizing a proprietary technique for precise positioning of strain gauges along the Load Pin neutral axis, with a fully active Wheatstone bridge configuration with two strain gages per arm; essential for high repeatability and thermal stability. To ensure proper orientation of the Load Pin when installed, an anti-rotation or keeper device is typically incorporated. A variety of (embedded) output options are available like 4-20 mA, 0-5 VDC, and 0-10 VDC. A variety of connection options are also available including connectors located at the Load Pin body or cable end. SENTRAN lead times for custom Load Pins is the quickest in the industry, generally eight weeks or sooner for fully validated prototypes or low volume runs.

Please submit available information requested in the worksheet. If unavailable or uncertain, our Sentran Sales Representative will provide guidance after our review. Please also upload any drawings and/or specs if available.

General Requirements					
1. Total number of Load Pins Required?	1	2	3	4	Other: _____
2. Application Type?	Clevis	Sheave/ Pulley	Shackle	Spelter Socket	Other: _____
3. Maximum Load Required?	_____	lb	kg	tonne	KN
4. *Accuracy Class Required?	0.50%	0.75% (Standard)	Other: _____		
5. Safe Overload?	150% (Standard)	200%	Other: _____		
6. Ultimate Overload Required (or Factor of Safety)?	300%	500%	1000%	Other: _____	
7. Material of Construction Required?	Alloy Steel	Stainless Steel	Other: _____		
8. Load Pin Output Required?	mV/V	4-20 mA (3-wire)	4-20 mA (2-wire)	0-5 VDC	0-10 VDC
9. Cable Length?	_____		Feet	Meter	
10. Operating Temperature Range Required?	_____	to	_____	°F	°C
11. Environmental Conditions?	Indoor	Outdoor	Marine/ Harsh	Submerged	Other: _____
12. Biaxial Configuration Required?	Yes	No			
13. Dual/Redundant Bridge Required?	Yes	No			

*Accuracy Class is dependent on pin geometry and rated capacity.

**SENTRAN**

WorkSheet

Innovative Measurement Solutions

LOAD PIN WORKSHEET

14. Fatigue Rated Required?	Yes	No
15. Grease Ports Required?	Yes	No

Secondary Information						
16. Bridge Resistance (For mV/V/ Output)	700 Ω (Standard)	350 Ω	Other: _____			
17. Deadweight Anticipated	_____	lb	kg	tonne	KN	Other: _____
18. Liveload or Product Weight Anticipated	_____	lb	kg	tonne	KN	Other: _____
19. Product or Material Being Weighed	_____					
20. Storage Temperature (If different than Operating)?	to _____	°F	°C	High Temp Option (+400°F/ +200°C)		
21. Hazardous Environment Classification (If Required)?	Class _____	Div _____	Group _____			

Companion Instrumentation						
22. Control Instrumentation Required?	Display	No Display	None Required			
23. Analog Communication Interface Required?	4-20 mA (3-wire)	4-20 mA (2-wire)	0-5 VDC	0-10 VDC	Other: _____	
24. Serial Communication Required?	RS232	RS485	Other: _____			
25. Mounting Configuration Preferred?	Wall Mount	Panel Mount	DIN Rail	Other: _____		
26. Setpoint Control Required?	Yes	No				
a. Setpoint value(s)	_____	lb	kg	tonne	KN	Other: _____
27. Supply Power Required?	115 VAC	220 VAC	12 VDC	24 VDC	Other: _____	
28. NEMA Rating Required	12/13	4	4X	Other: _____		
29. Remote Display Required?	Yes	LCD	LED	Other: _____		
a. Digit Size?	2.25"	4"	6"	8"	Other: _____	
b. Distance from Control System?	_____	Feet	Meter			
c. RF Communication Required?	Yes	No				

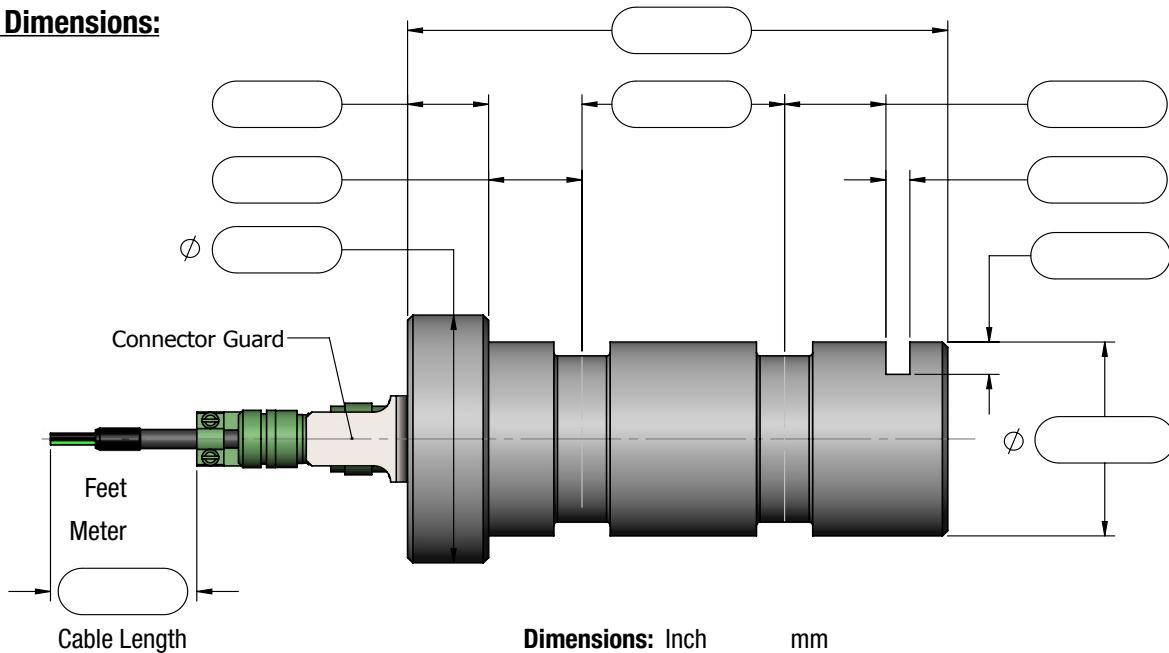


SENTRAN

WorkSheet

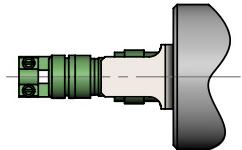
Innovative Measurement Solutions

General Dimensions:

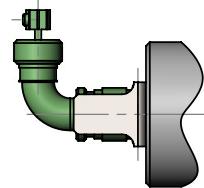


Dimensions: Inch mm

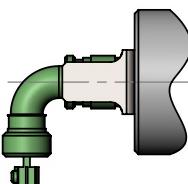
Connector Position:



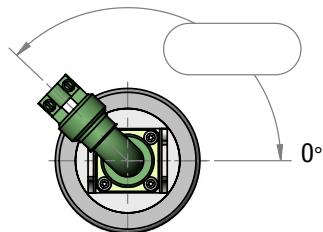
Standard Axial (Inline)



90° Upward

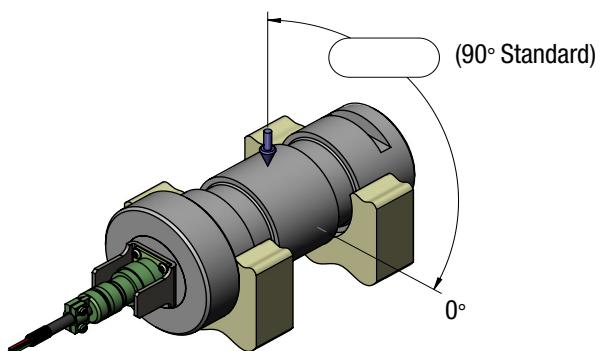


90° Downward



Special - Specify Angle

Load Direction:



Comments/Special Requirements: