

# Load Pin Load Cell

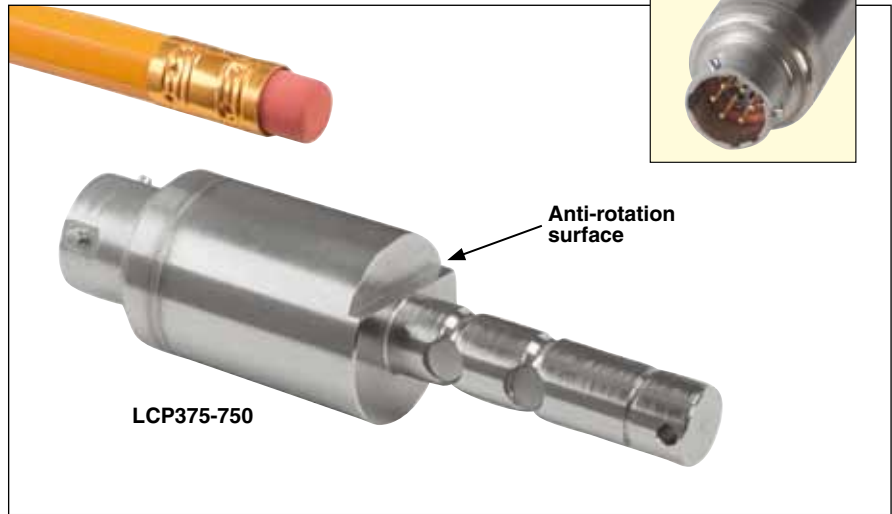


**Force Sensing Load Pin**  
**600 to 50,000 lb / 272 to 22,680 kgf**

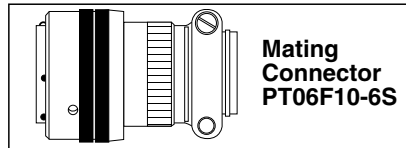
## LCP Series



- ✓ Dual Shear Beam Technology
- ✓ High 0.50% Accuracy Class
- ✓ All Stainless Steel Construction
- ✓ Standard PTIH-10-6P Connector



LCP Series are compact load pins designed for tension and compression measurements. They can be applied on clevis pin shackles, loading cranes, lifting fittings, sprockets and pulley axles by replacing existing shear pins, clevis bolts, clevis pins, shear axles and many other types of pinned joints to control or monitor reaction load on the pins. Applications include measuring of cable tension, structural testing, aerospace and construction, force calibration, lifting systems, mooring systems, hydraulic presses and crane load systems. LCP Series are temperature-compensated.



## Specifications

**Output:** 1 mV/V nominal  
**Excitation:** 10 Vdc (15 Vdc max)  
**Linearity:**  $\pm 0.50\%$  FSO  
**Hysteresis:**  $\pm 0.50\%$  FSO  
**Repeatability:**  $\pm 0.15\%$  FSO  
**Zero Balance:**  $\pm 1.0\%$  FSO  
**Operating Temp Range:** -53 to 121°C (-65 to 250°F)  
**Compensated Temp Range:** 16 to 71°C (60 to 160°F)

## Thermal Effects:

**Zero:**  $\pm 0.009\%$  FSO/°C ( $\pm 0.005\%$  FSO/°F)  
**Span:** 0.009% FSO/°C ( $\pm 0.005\%$  FSO/°F)  
**Safe Overload:** 200% of capacity for LCP375, 150% of capacity for LCP1500-30K  
**Ultimate Overload:**  $\geq 300\%$  of Capacity  
**Bridge Resistance:** 350  $\Omega$  nominal  
**Construction:** Stainless Steel  
**Electrical Connector:** PTIH-10-6P (or equivalent)  
**Protection Class:** IP65

## Models with Integral Connector (PTIH-10-6P or Equal)

To Order			
Capacity		Model No.	Compatible Meters
lb	kgf		
600	272	LCP375-600	DPiS, DP41-S, DP25B-S
750	340	LCP375-750	DPiS, DP41-S, DP25B-S
1500	680	LCP375-1.5K	DPiS, DP41-S, DP25B-S
30,000	13,608	LCP1500-30K	DPiS, DP41-S, DP25B-S

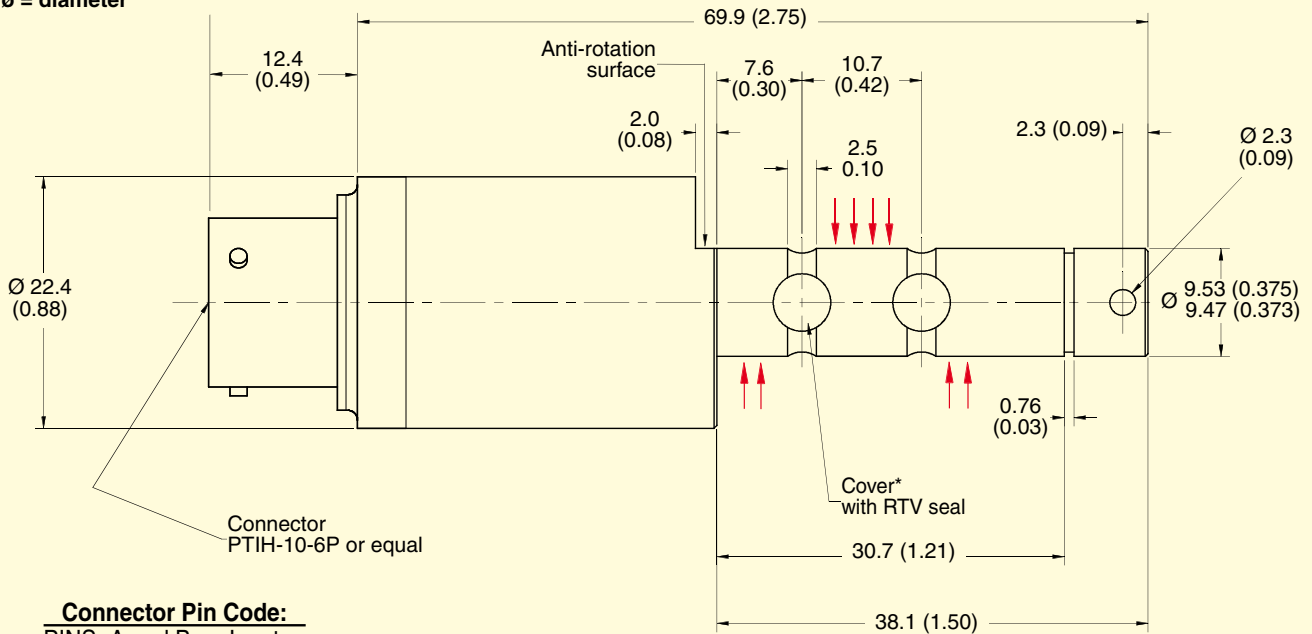
## Accessory

Model No.	Description
PT06F10-6S	Mating connector for LCP series load pins, sold separately



**LCP375**

Dimensions: mm (inch)  
 ø = diameter



**Connector Pin Code:**

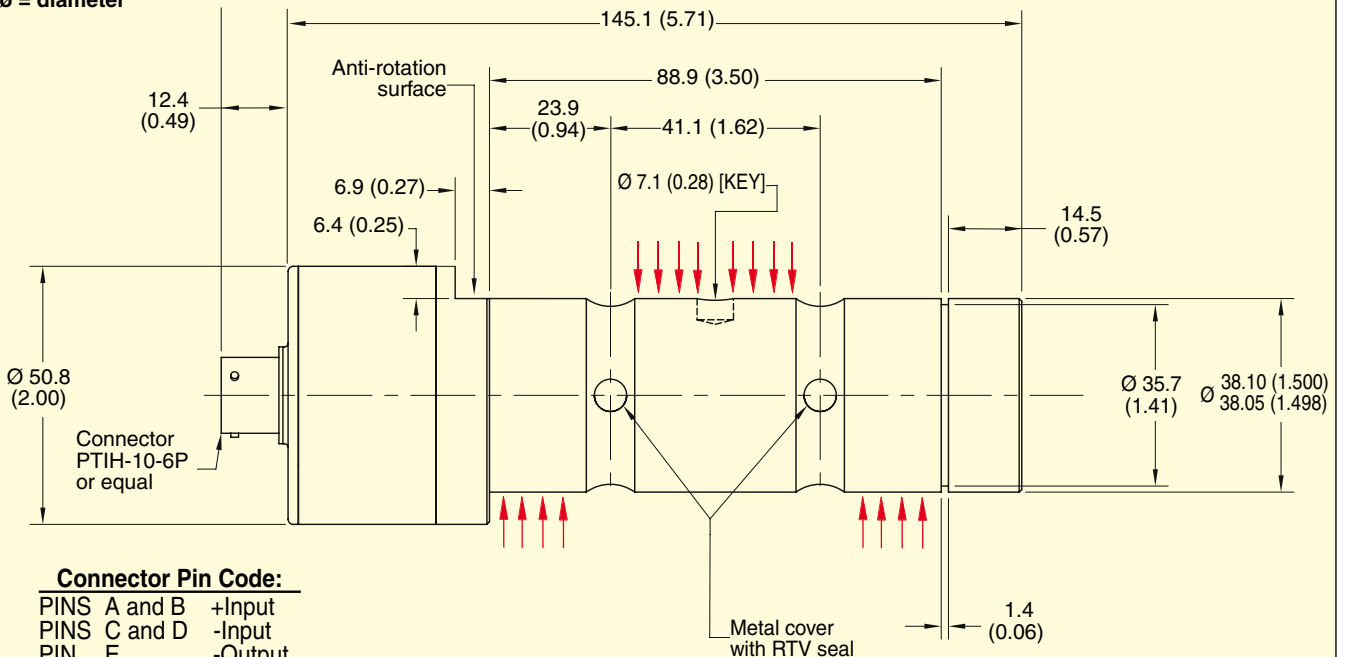
- PINS A and B +Input
- PINS C and D -Input
- PIN E -Output
- PIN F +Output

\* No cover used on 1500 lb version

Red arrows indicate direction of positive loading. Calibration in positive direction standard.

**LCP1500**

Dimensions: mm (inch)  
 ø = diameter



**Connector Pin Code:**

- PINS A and B +Input
- PINS C and D -Input
- PIN E -Output
- PIN F +Output

Red arrows indicate direction of positive loading. Calibration in positive direction standard.