

Load Pin Load Cell



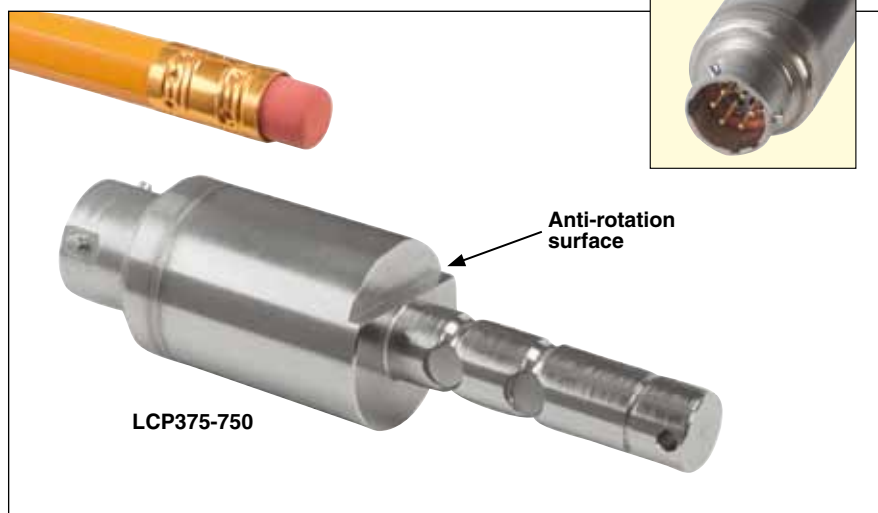
Force Sensing Load Pin

600 to 50,000 lb / 272 to 22,680 kgf

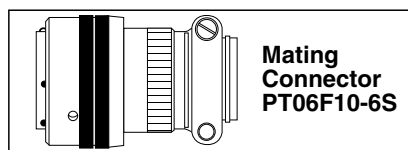
LCP Series



- ✓ 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.



Mating Connector
PT06F10-6S

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 Ω 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

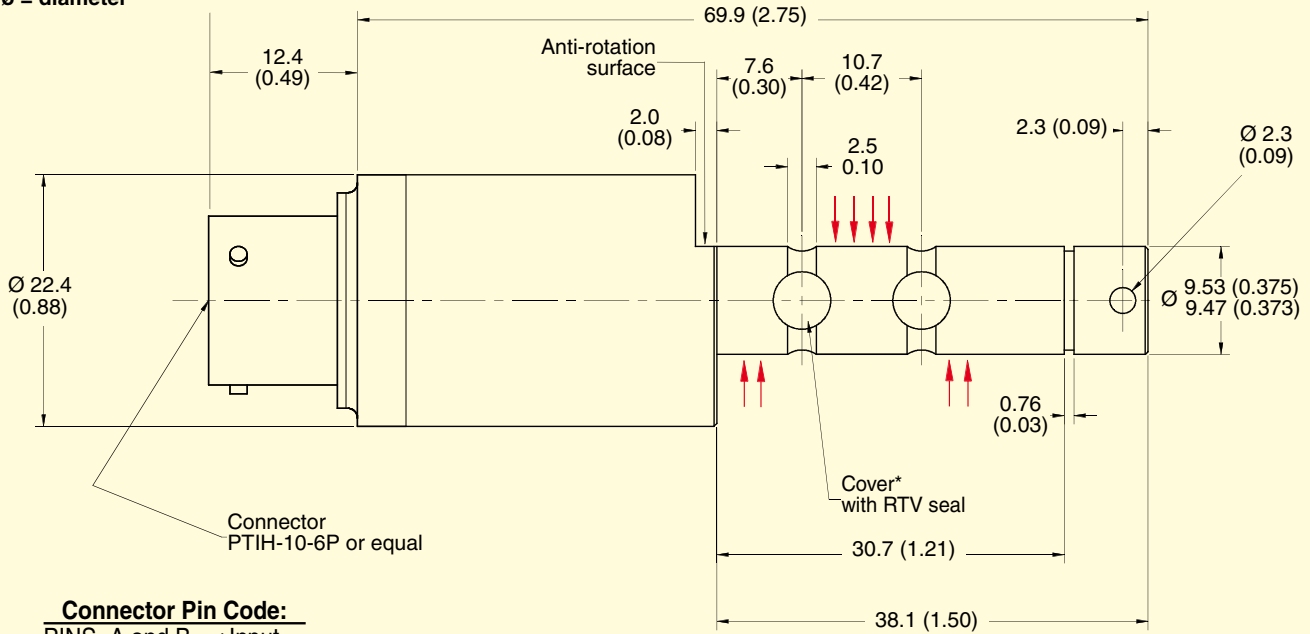
Accessory

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



LCP375

Dimensions: mm (inch)
 \varnothing = diameter



Connector Pin Code:

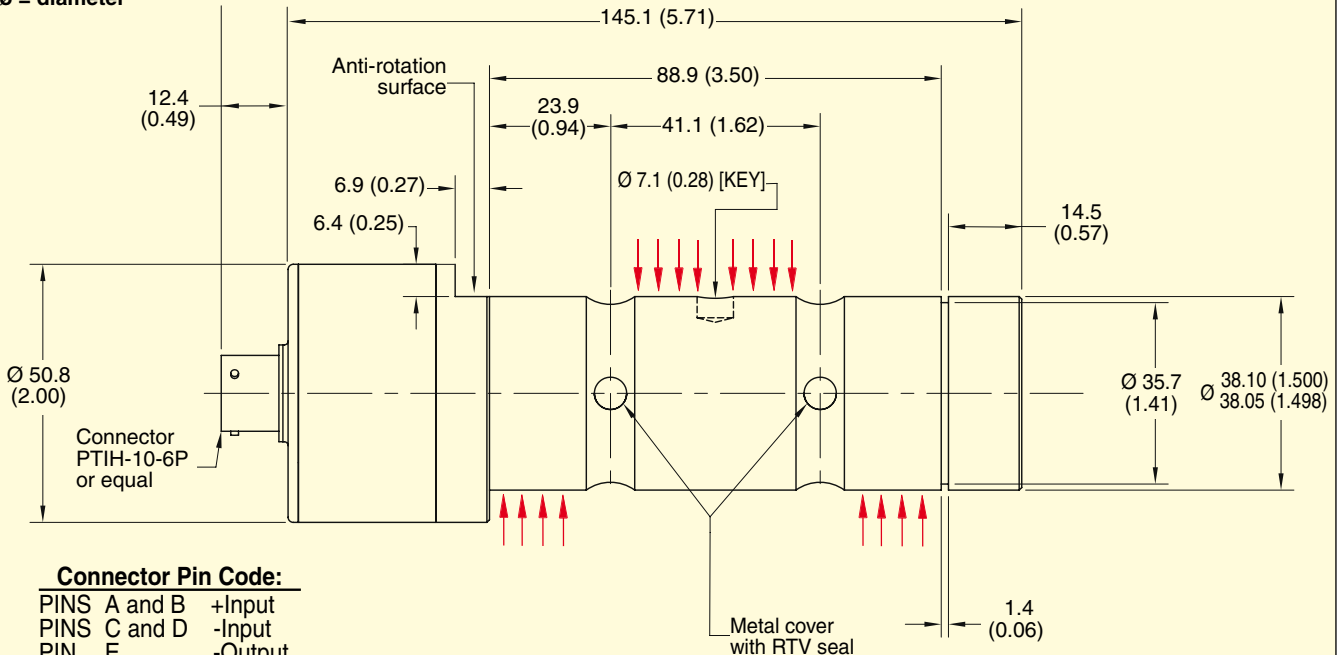
PINS A and B +Input
 PINS C and D -Input
 PIN E -Output
 PIN F +Output

* No cover used on 1500 lb version

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

LCP1500

Dimensions: mm (inch)
 \varnothing = 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.