

Force Sensing Clevis Pin

Model LP

ALL WELDED CONSTRUCTION

AMPLIFIED OUTPUT AVAILABLE



Model LP load pins are designed to be installed where pins or bolts are carrying a load. Applications which involve the use of shackle pins, clevis pins and pulley shafts are prime examples of where force sensing clevis pins can provide accurate, real time monitoring of load forces. The Model LP features hermetic, welded stainless steel construction and is available with a standard PTIH-10-6P connector or an optional submersible cable. These rugged clevis pins provide excellent long term stability and reliable operation under severe operating conditions.

Model LP Order Code AL441

PERFORMANCE

Load Ranges	2000 to 200,000 lbs.
Non-Linearity and Hysteresis (max)	From 0.5%, consult factory
Non-Repeatability (max)	0.15% of F.S.
Output	1mV/V nominal

ENVIRONMENTAL

Temperature, Operating	-65° F to 250° F
Temperature, Compensated	60° F to 160° F
Temperature Effect	
- Zero (max)	.003% of F.S./° F
- Output (max)	.008% of Load/° F

ELECTRICAL

Excitation (calibration)	10VDC
Wiring Code (std)	#2
Electrical Termination (std)	PTIH-10-6P
Mating Connector (not incl.)	PT06A-10-6S or equivalent

MECHANICAL

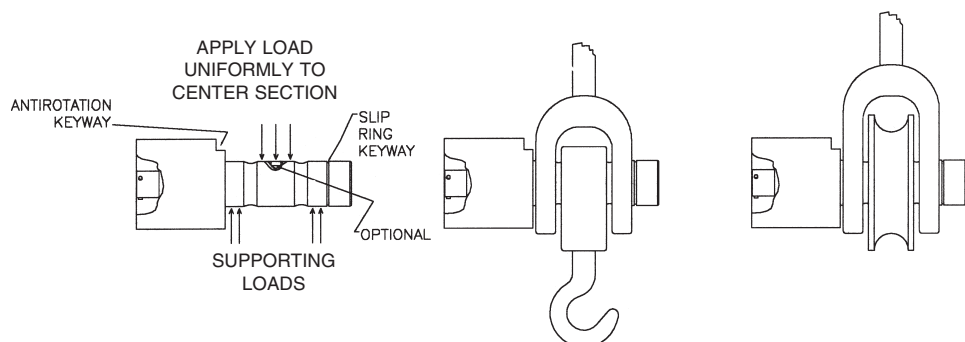
Static Overload Capacity without Breaking	200% F.S.
Casing Material	17-4 ph stainless steel

Options (See Appendix)

Internal amps 4-20mA (2-wire) intrinsically safe amp 2n; 4-20mA output (2-wire) 2k; 0-5 VDC output 2a; ± 5 VDC (4-wire) 2b; 0-10 VDC output 2t; ± 10 VDC (4-wire) 2w; Integral underwater cable 6i.

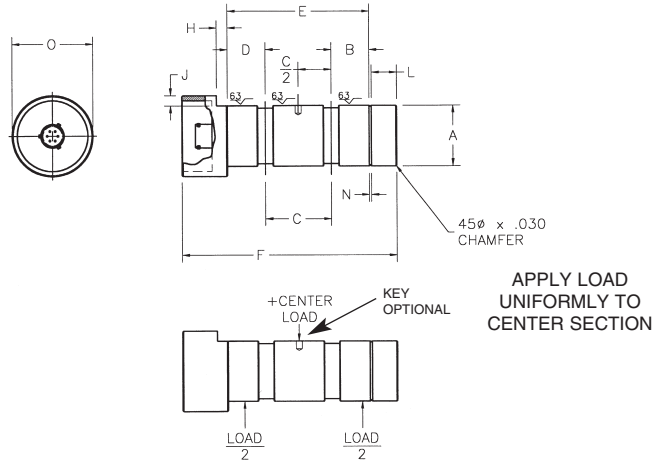
Installation

Standard uses for SENSOTEC Clevis Pins include tongue and yoke shackles and tension pulleys. Clevis pins are also ideal for use in web tension applications. Consult SENSOTEC for web tension measurement kits from 200 to 500,000 lbs.

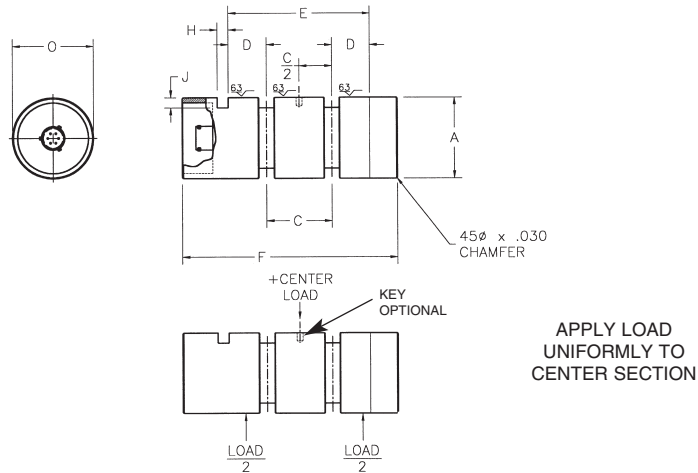


Dimensions

Model LP (Order Code AL441)



Capacity	A Dia.	B	C	D	E	F	H	J	KEY DIA.	L	SNAP RING GROOVE DIA.	N	O
2000, 3000	.500	.50	.75	.50	1.75	4.00	.20	.25	N/A	.25	.468	.039	2.00
5000, 6000	.750	.59	1.00	.59	2.18	4.50	.20	.25	.156	.31	.704	.046	2.00
10,000, 12,500	1.000	.63	1.00	.63	2.26	4.75	.20	.25	.219	.50	.940	.046	2.00
18,000, 20,000	1.250	.81	1.38	.81	3.00	5.63	.27	.25	.219	.63	1.176	.056	2.00
30,000	1.500	.94	1.63	.94	3.51	6.13	.27	.25	.281	.63	1.406	.056	2.00
	+ .000 - .0018												



Capacity	A Dia.	C	D	E	F	H	J	KEY DIA.
50,000	2.000	2.00	1.00	4.00	6.63	.266	.38	.281
75,000	2.500	2.50	1.25	5.00	7.63	.266	.50	.281
100,000	2.750	2.69	1.47	5.63	8.38	.406	.50	.406
125,000	3.000	3.00	1.44	5.88	8.75	.406	.63	.406
160,000	3.500	3.50	1.75	7.00	10.00	.531	.63	.531
200,000	4.000	4.00	2.25	8.50	11.75	.531	.75	.531
	+ .000 - .002							

Note: The Model LP is available in both standard and custom sizes. Consult Sensotec if you require an application-specific design not shown on this data sheet