KTP SPRING LOADED LINEAR POSITION SENSOR

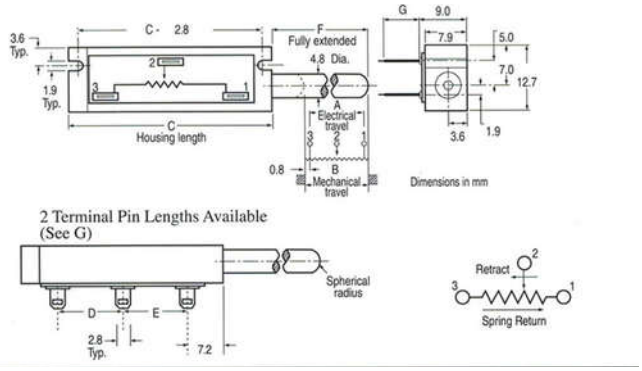


- **Aimed at space-limited position feedback applications**
- **Durable design for harsh environments**
- **High temperature stability**

Designed for a variety of space-limited feedback applications that require position feedback. The KTP Series Linear Position Sensor is ideally suited for use where reliability in a harsh operating environment is a primary consideration. Industrial, vehicular, appliance, machine tool and robotic applications benefit from the unit's high temperature stability. The solderable terminal tabs, suitable for use with .110" (2.8mm) PDQ styled crimped wiring lugs, and durable spring-loaded plunger, make installation and operation easy. The KTP Series is available in three standard sizes and provides excellent life at 1,000,000 full cycles (5 million dither cycles), which means high reliability in demanding installations.

Specifications				
Model		KTP	KTP	KTP
Part Number		KTP-05-L	KTP-10-L	KTP-15-L
Total Electrical Travel (A)	mm	12.7	25.4	38.1
Total DC Resistance ± 25%	Ω	1.7K	3.4K	5.1K
Max. Voltage	V	60 AC/DC		
Linearity Over Active Electrical Travel	%	± 2		
Power Rating at 70°C,	Watt	0.25	0.50	0.75
Mechanical Travel ± 0.4 (B)	mm	14.2	26.9	39.6
Housing Length ± 0.4 (C)	mm	26.9	39.6	52.3
Terminal Spacing (D) mm (E)	mm	7.6 5.1	12.7 12.7	20.3 17.8
Fully Extended Length ± 0.4 (F)	mm	20.6	33.3	46.0
Mechanical Life	-	1,000,000 Full Cycles; 5,000,000 Dither Cycles		
Stop Strength	N	100		
Actuation Force Newtons	N	4.0 Maximum, supplied with internal spring to return actuator to extended position		
Humidity	-	95% @ 38°C		
Vibration	-	15g, 50 to 1,000Hz, 2 hrs, each axis		
Shock	g	Up to 50		
Temperature Limits	°C	-40 to +135		

Dimensions


3.6
Typ.
C - 2.8
F
Fully extended
4.8 Dia.
G
9.0
7.9
5.0
7.0
12.7
1.9
Typ.
A
Electrical travel
C
Housing length
3.6
1.9
0.8
B
Mechanical travel
Dimensions in mm
2 Terminal Pin Lengths Available
(See G)
Spherical radius
D
E
2.8
Typ.
7.2
Retract
2
3
1
Spring Return