

KPY-series

Linear position sensor 10-125 mm



The KPY series is an absolute linear position sensor with a thru-rod design and return spring. The design has double rod support ensuring a greater strength and stability in a compact housing. KPY is a potentiometric sensor with high accuracy and wide temperature span.

KPY series potentiometers ensure consistent measurement and reliable operation throughout the service life of the sensor. Defined electrical range is 10 mm...125 mm.

- Compact
- Return spring
- Large temperature span
- Good performance/price ratio

Model KPY	10	15	25	50	75	100	125
Active electric stroke (A.E.) (mm)	10	15	25	50	75	100	125
Resistance (T.E.) $\pm 20\%$ (k Ω)	1	1	1	5	5	5	5
Linearity over active stroke ($\pm\%$ FS)	0,5	0,5	0,5	0,2	0,2	0,5	0,5
Mechanical stroke (mm)	23	28,5	34	70,5	103	132,5	175,5
Housing length (A) (mm)	A.E + 45,5						
Max Supply voltage (V)	12	12	12	60	60	60	60
Dissipation at 40°C (W)	0,6	0,6	0,6	1,8	1,8	2,4	2,4

SPECIFICATIONS	
Output	Potentiometer
Resolution	Near infinite
Repeatability	0,002 mm
Operating speed	≤ 10 m/s
Wiper current	
Recommended	< 1 μ A
Failing point	10 mA
Temperature	
Operating	$-60^{\circ}\text{C} \dots +155^{\circ}\text{C}$
Temperature coefficient	$\leq 1,5$ ppm/ $^{\circ}\text{C}$
Material	
Housing	Aluminum
Sensor rod	Stainless steel AISI 303
Vibration	5-2000 Hz, 20 G
Shock	50 G, 11 ms
Protection class	IP 67
Displacement force	4 N
Life time	100x10 ⁶ strokes or 25x10 ⁶ travel meters*
*Performance may change during life time	

ACCESSORIES	
Fix kit:	4 pcs brackets & 4 pcs screws
KPY2 rod point	Stainless steel ball
KPY3 rod point	Roller bearing

2018-05-18, specifications subject to change without notice

ISO 9001
BUREAU VERITAS
Certification



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