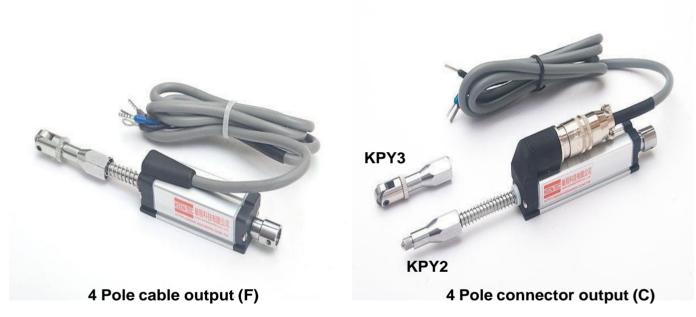
# Position Transducers with Restoring Spring

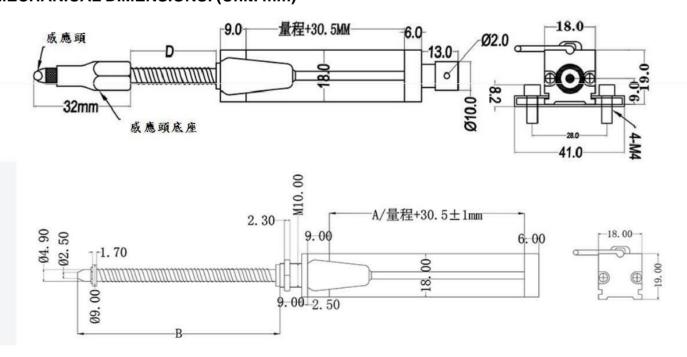
KPY series position sensors employing conductive-plastic resistance and collector tracks provide direct means of measuring position or profile, without the need of a solid mechanical coupling. The side connection creates a through-rod structure with double rod support, guaranteeing greater overall strength of the transducer.

One important feature of the KPY Series is the industry proven double-bearing systems on both actuator shaft and spring. This arrangement reduces side load errors that could occur in an application such as cam-following and is one of the design factors that enable the outstanding linearity of this series. The return spring automatically returns the rod to zero position, making the transducer suitable for comparator applications.

KPY2 with stainless steel ball and KPY3 with roller bearing both are suitable for applications where the object to be measured is not subject to shifts transverse to the transducer axle.



## MECHANICAL DIMENSIONS: (Unit: mm)



TEL: 886-2-29995186 FAX: 886-2-29994876



# KEEN-TEC KEEN ENGINEERING CO., LTD.

## **ELECTRICAL CONNECTIONS:**

# Cable output Blue Black (Signal output) A.E. T.E. M.T.

## ACCESSORIES:

## **STANDARD:**

Fix kit: 4 brackets, 4 screws KPY2 (Stainless steel ball) KPY3 (Roller bearing) -F (4 Pole cable output) -C (4 Pole connector output)

# **ELECTRICAL / MECHANICAL DATA**

KPY series	model	10/15/25/50/75/100/125/150/175/200/225/250/275/300		
Useful electrical stroke (A.E)	mm	10~25	50 <b>~300</b>	
Resistance (T.E) ±20%	ΚΩ	1	5	
Independent linearity (within A.E)	± %	0.1		
Mechanical stroke (M.T. ,B)	mm	stroke+3mm		
Case length (A)	mm	Model+45.5		
Resolution		infinite		
Repeatability	mm	0.002		
Displacement speed	m/s	≤ 10 Standard		
Protection level		IP67		
Life		25x10 <sup>6</sup> M or 100x10 <sup>6</sup> operations		
Displacement force	N	4		
Vibrations		5 - 2000Hz, Amax =0.75 mm amax. = 20 g		
Shock		50 g, 11ms		
Recommended cursor current	μA	<1		
Max. cursor current	mA		10	
Maximum applicable voltage	٧	12	60	
Electrical isolation	MΩ	>100 @	>100 @ 500V ,50Hz, 2s,1bar	
Dielectric strength	μΑ	< 100 @ 500V~ ,50Hz, 2s,1bar		
Actual Temperature Coefficient ≤ 5ppm/°C typical of		the output voltage ≤ 1.5 ppm/°C typical		
Working temperature	۴	-60-+150		
Material for transducer case		Anodised aluminium Nylon		
Material for pull shaft		Stainless steel		
Mounting		Brackets with adjustable distance with screw		

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