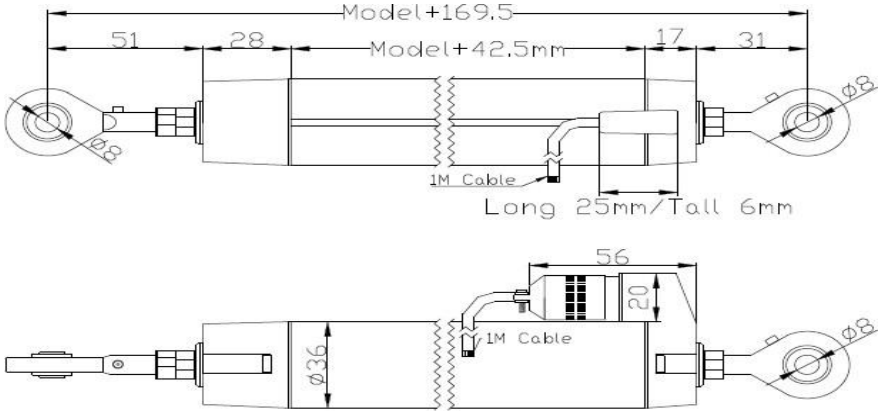
Rectilinear Displacement Transducer With Cylindrical Case

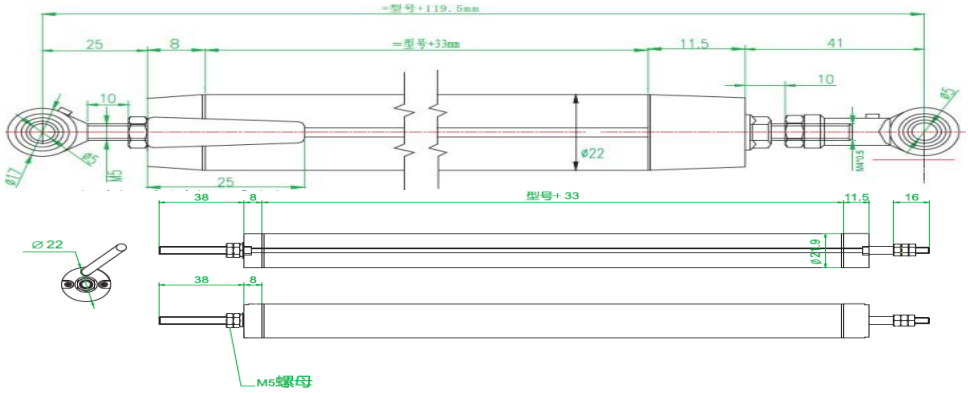
KPC/KPS Position Transducers was designed to satisfy extreme applicative demands in terms of mechanical strength.
Outstanding linearity and accurate measurement are achieved with a resistance element made of conductive plastic and wiper system is mounted on the actuating rod and coupled free-of-backlash for a long life and trouble-free operation and control of mechanical strokes.
Installation is simplified by the lack of electrical signal variation at output outside theoretical electrical stroke.
The structure based on self-aligning and weight-bearing ball joints permits assembly with free movement of the transducer axle.

CE

KPC MECHANICAL DIMENSIONS: (Unit: mm)



KPS MECHANICAL DIMENSIONS: (Unit: mm)



ELECTRICAL CONNECTIONS:

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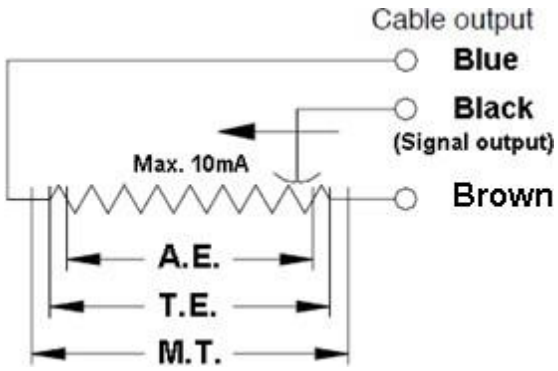
Cable Output Type:



-F (4 Pole cable output)
-C (4 Pole connector output)

KPC ELECTRICAL / MECHANICAL DATA:

KPC	Model	50~550	600~1250
Useful electrical stroke (A.E.)	mm	50~550	600~1250
Resistance (T.E.) ±10%	KΩ	5	10
Independent linearity (within A.E.)	+- %	0.1	0.05
Mechanical stroke (M.T.)	mm	A.E.+7mm	
Resolution		infinite	
Repeatability	mm	0.01	
Displacement speed	m/s	≤ 5 (Standard)	
Protection level		IP67	
Life		100x10^6 strokes	
Displacement force	N	≤ 10	
Vibrations		5 – 2KHz, Amax =0.75 mm, amax. = 20 g	
Shock		50 g, 11ms	
Recommended cursor current	*μA*	< 1	
Max. cursor current	*mA*	10	
Max. applicable voltage	*V*	60	
Electrical isolation		>100 MΩ@ 500V, 2s, 1bar	
Dielectric strength		< 100*μA* @ 500V~ ,50Hz, 2s,1bar	
Actual Temperature Coefficient of the output voltage	*ppm/°C*	≤ 1.5 (typical)	
Working temperature	℃	-60~+150	
Material for transducer case		Anodized aluminum Nylon 66 G 25	
Control rod Material		Stainless steel AISI 303	
FIX		2 Self loading and self aligning ball-joints	

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KPS ELECTRICAL / MECHANICAL DATA:

KPS	Model	10/15/25/50/75/100/125/150/175/200/225/250/275/300	
Useful electrical stroke (A.E.)	mm	10~75	100~300mm
Resistance (T.E.) ±10%	KΩ	1	5
Independent linearity (within A.E.)	+- %	0.1	0.05
Mechanical stroke (M.T.)	mm	A.E.+3mm	
Resolution		infinite	
Repeatability	mm	0.01	
Displacement speed	m/s	≤ 5 (Standard)	
Protection level		IP67	
Life		100x10^6 strokes	
Displacement force	N	≤ 10	
Vibrations		5 – 2KHz, Amax =0.75 mm, amax. = 20 g	
Shock		50 g, 11ms	
Recommended cursor current	*μA*	< 1	
Max. cursor current	*mA*	10	
Max. applicable voltage	*V*	12	60
Electrical isolation		>100 M Ω@ 500V, 2s, 1bar	
Dielectric strength		< 100*μA* @ 500V~ ,50Hz, 2s,1bar	
Actual Temperature Coefficient of the output voltage	*ppm/℃*	≤ 1.5 (typical)	
Working temperature	℃	-60~+150	
Material for transducer case		Anodized aluminum Nylon 66 G 25	
Control rod Material		Stainless steel AISI 303	
FIX		2 Self loading and self aligning ball-joints	

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