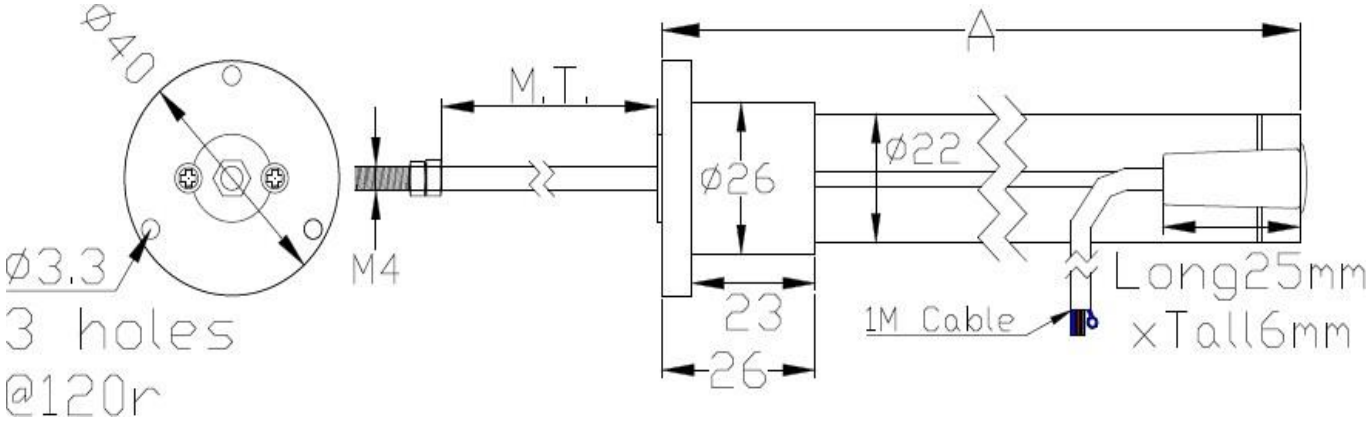
Rectilinear Displacement Transducer With Cylindrical Case

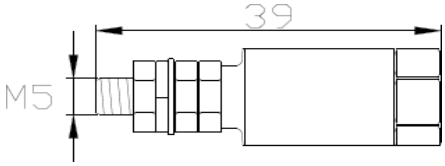
KPZF Position Transducers was designed to satisfy extreme applicative demands in terms of mechanical strength. The cylindrical housing plus the flange fastening systems, makes the KPZF series highly versatile for a wide range of applications. Outstanding linearity and accurate measurement are achieved with a resistance element made of conductive plastic and wiper system is mounted on the actuating rod 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.

MECHANICAL DIMENSIONS: (Unit: mm)



COUPLING JOINT:

Link Ball-02



敏程科技有限公司 (Taiwan)
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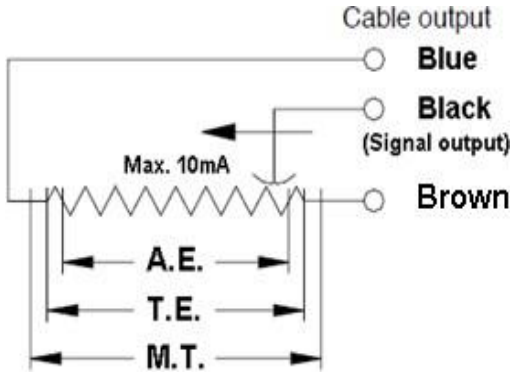
ELECTRICAL CONNECTIONS:



ACCESSORIES:

Ball connection joint:

Ball Joint (01)

Link Ball (02)

ELECTRICAL / MECHANICAL DATA:

KPZF Series	Model	10/15/25/50/75/100/125/150/175/200/225/250/275/300	
Useful electrical stroke (A.E.)	mm	10~75	100~300
Resistance (T.E.) ±10%	KΩ	1	5
Independent linearity (within A.E.)	+- %	0.1	0.05
Mechanical stroke (M.T.)	mm	A.E.+3mm (each side 1.5mm buffer)	
Case length (A)	mm	A.E.+54mm	
Resolution		infinite	
Repeatability	mm	0.01	
Electrical connections		4 pole cable	
Displacement speed	m/s	≤ 5 (Standard)	
Protection level		IP67	
Life		$100x10^6$ strokes	
Displacement force	N	≤ 1.2	
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*	10	50
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		flange	

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