

KPM linear transducer with Rod Ends Joints

FEATURE:

- Stroke lengths 300mm
- Rod-end bearings mount for ease of installation
- High speed operation
- Resolution better than 0.01mm
- Ruggedized construction and long life
- High performance and reliability even under extreme temperature and vibration
- Protection class IP65
- With swivel rod eyes at each end for self-alignment and easy mounting
- Optional signal converters available: 4–20 mA, 0–5 VDC, or 0–10 VDC outputs



APPLICATION :

WELLTEK products are widely applied in various industrial sectors, especially in the OEM market. These include industries such as:

- Plastics (Injection molding machines)
- Glass manufacturing
- Printing machinery & Multi-Axial Cutting Machine
- Medical equipment
- Wood and coal mining machinery
- Position Control / Cylinder's Position Sensing
- Automation & Level Control
- Products can be integrated with PLC industrial control systems, servo systems, frequency converters, and microcontrollers.

TECHNICAL SPECIFICATION

Measuring stroke	25 to 300 mm					
Repeated	<0.01 mm					
Resolution	Infinity					
Resistance	1 / 5 KΩ					
Resistance Tolerance	± 20 %					
Load Resistance	100 KΩ					
Allow power supply voltage	28 V Max					
Resistance Output	Supply Voltage	5 V	10 V	12 V	15 V	24V
	Output	0-5 V	0-10V	0-12V	0-15V	0-24V
Special Converter (V/A)	Supply Voltage	12 – 24 VDC		Supply Voltage		12 – 24 VDC
	Output Voltage	0-5 V	0-10V	Output Current		4-20mA
Electrical Connections	Straight Out					
Displacement Speed	< 5 m/s					
Mechanical Life	>30x 10 ⁶					
Shell Size	ø 18 mm					
Shell materials	Anodized Aluminium					
Rod materials	Stainless Steel					
Rod diameter	ø 5 mm					
Mechanical Fixation	Fisheye ball joints at both end					
IP Protection	IP 65					
Operating Temperature	-40 °C to 80°C					

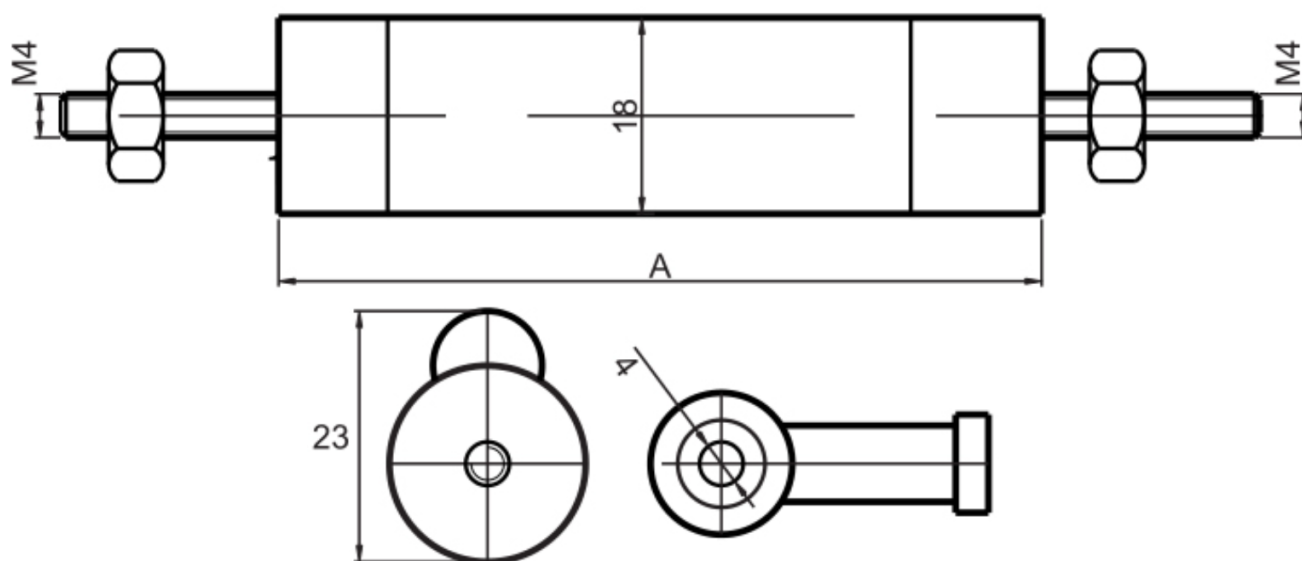
Specifications are subject to change. Please consult Welltek before placing an order.

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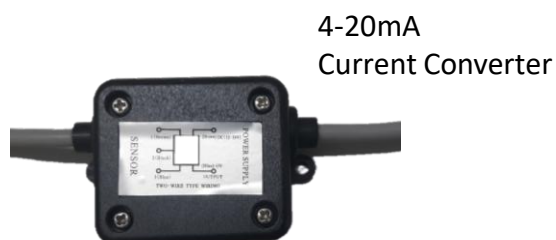
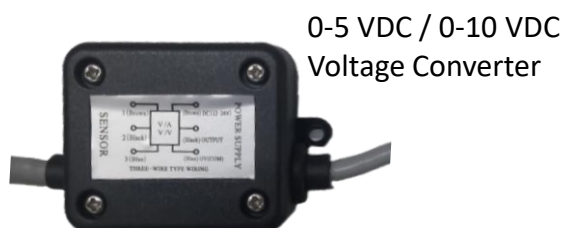
MODEL PARAMETERS

Working range (mm)	25	50	75	100	125	150	175	200	225	250	275	300
Electrical Stroke (± 0.5 mm)	25.5	50.5	75.5	101	126	151	177	202	227	252	277	302
Standard Resistance (K Ω)	1	5										
Independent Linearity ($\pm$ %)	0.3	0.25	0.1	0.08	0.08	0.08	0.05	0.05	0.05	0.05	0.05	0.05
Shell Length (dimension A) ± 2 mm	80	105	125	155	180	205	230	255	280	305	330	355
Mechanical stroke (size MT) ± 2 mm	30.5	55.5	80.5	106	131	156	182	207	232	257	283	307
Weight (Without accessories) g	80	90	101	111	122	132	142	153	163	174	185	355

DRAWING



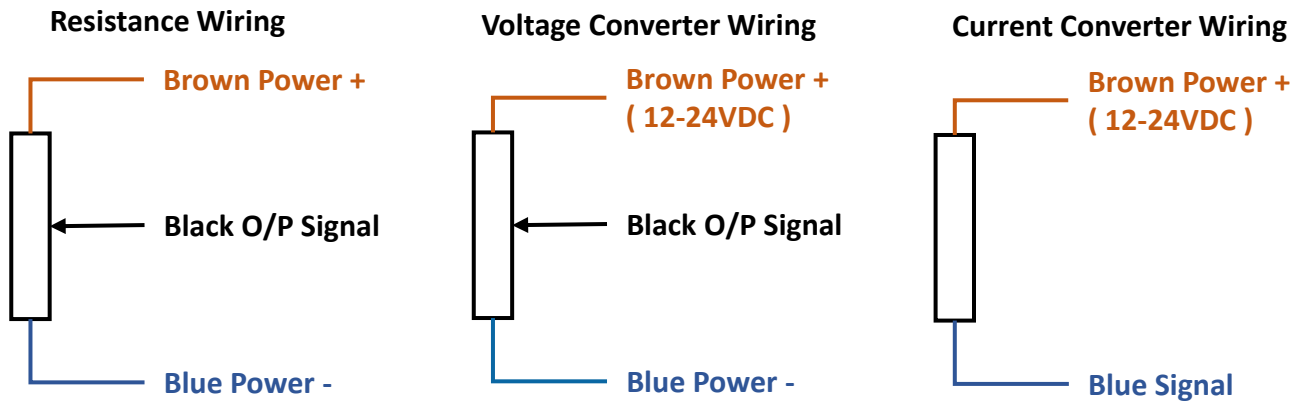
CONVERTER



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OUTPUT WIRING DIAGRAM



ORDER CODE

Scale type	OUTPUT Type	Stroke Length (mm)	Cable Length (meter)
KPM	R: Resistive	XXX	Omit: Cable length: 1 m
	A2: 4 to 20 mA		02: Cable length: 2 m
	V1: 0 to 5 V DC		03: Cable length: 3 m
	V2: 0 to 10 V DC		04: Cable length: 4 m

Example

- **KPM-R-25** :KPM-25 Model with resistive output, 1 meter cable length
- **KPM-A2-50-02** : KPM-50 Model with 4 to 20 mA OUTPUT, 2 Meter cable

ACCESSORIES

STANDARD

- KPM mounting kit (2 Fisheye ball)

ON REQUEST

- Digital Indicator for Linear Position



Digital Indicator for Linear Position

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