

KTR Linear rod type distance position sensor

FEATURE:

- Spring self-recovery linear potentiometer
- Stroke lengths available from 5 to 300 mm
- Mounting brackets included
- High precision and repeatability
- Protection class of IP65 (Dust tight, Water resistant)
- Compact size, housing is only 18 mm x 18 mm
- 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
- Medical equipment
- Wood and coal mining machinery
- Multi-Axial Cutting Machine
- 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	5 to 300 mm					
Repeated	<0.01 mm					
Resolution	Infinity					
Resistance	2 KΩ / 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	< 3 m/s					
Mechanical Life	>30x 10 ⁶					
Shell Size	18 mm x 18 mm					
Shell materials	Anodized Aluminium					
Rod materials	Stainless Steel					
Rod diameter	Ø 5 mm					
Mechanical Fixation	Adjustable Clamp					
IP Protection	IP 65					
Operating Temperature	-40 °C to 80°C					

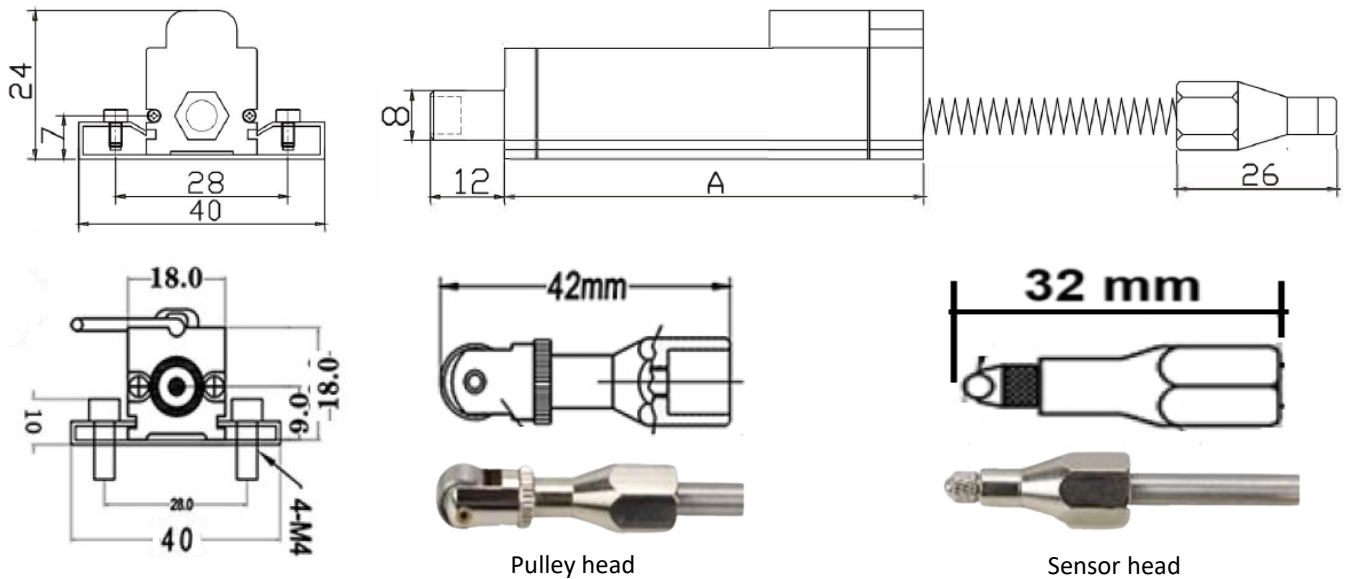
Specifications are subject to change. Please consult Welltek before placing an order.

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MODEL PARAMETERS (OUTER SPRING)

Working range (mm)	5	10	15	25	50	75	100	150	200	250	300
Electrical Stroke (± 0.5 mm)	5	10	15.5	25.5	50.5	75.5	101	152	205	255	305
Standard Resistance (K Ω)	2		5								
Independent Linearity ($\pm$ %)	1	1	0.5	0.5	0.25	0.15	0.1	0.1	0.1	0.1	0.1
Shell Length (dimension A) ± 2 mm	43.5	48.5	53.5	78	93	118	143	188.5	238.5	288.5	338.5
Mechanical stroke (size MT) ± 2 mm	9	14	19	29.5	54.5	79.5	105	154	204	254	304
Weight (Without accessories) g	56	59	60	63	125	140	160	201	251	301	351

DRAWING



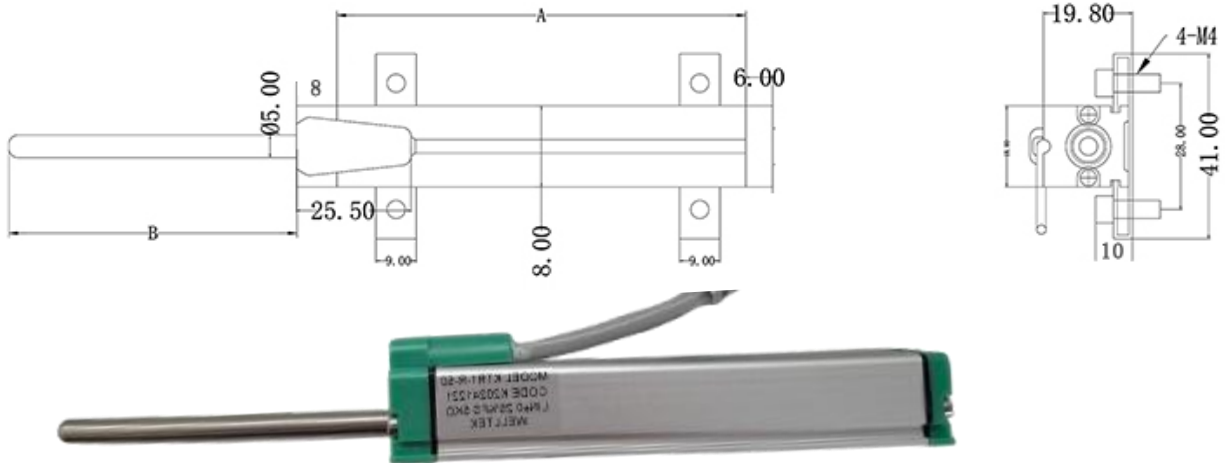
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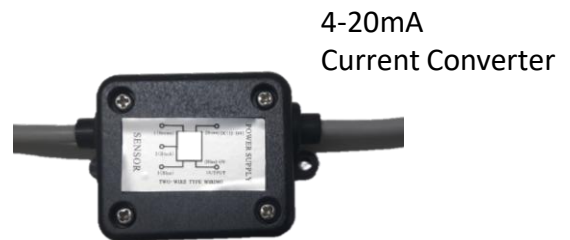
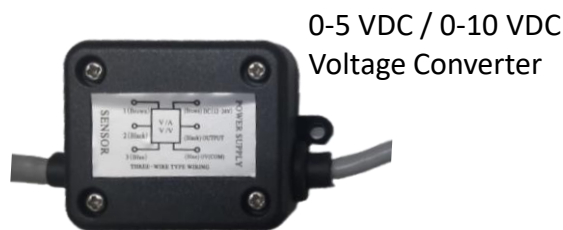
MODEL PARAMETERS (INNER SPRING)

Working range (mm)	5	10	15	25	50	75	100
Electrical Stroke (± 0.5 mm)	5	10	15.5	25.5	50.5	75.5	101
Standard Resistance (K Ω)	2		5				
Independent Linearity ($\pm$ %)	1	1	0.5	0.5	0.25	0.15	0.1
Shell Length (dimension A) ± 2 mm	29.5	34.5	38	63.5	96.7	140.8	196.1
Mechanical stroke (B) ± 2 mm	15	20	25	42	70	95	121
Weight (Without accessories) g	56	59	60	63	125	140	160

DRAWING

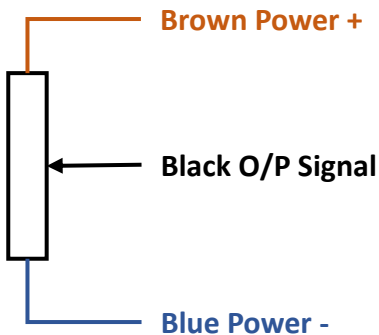


CONVERTER

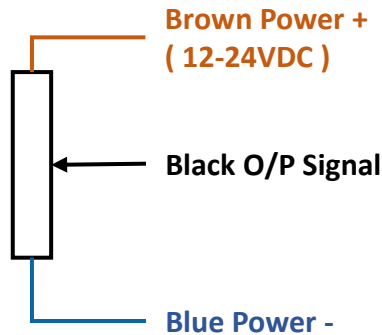


OUTPUT WIRING DIAGRAM

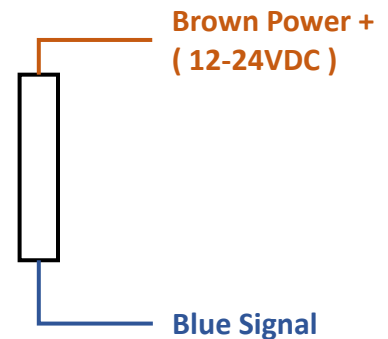
Resistance Wiring



Voltage Converter Wiring



Current Converter Wiring



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ORDER CODE

Scale type	MOD Code (Omit if not required)	OUTPUT Type	Stroke Length (mm)	Cable Length (meter)
KTR	Omit if outer spring	R: Resistive	XXX	Omit: Cable length: 1 m
	01: Inner Sprint	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

- **KTR-R-25** :KTR-25 Model with resistive output, 1 meter cable length
- **KTR-01-A2-50-02** : KTR-50 Inner spring type Model with 4 to 20 mA OUTPUT, 2 Meter cable

ACESSORIES

STANDARD

- KTR mounting kit (2 brackets, 4 screws), pre attached sensor head

ON REQUEST

- Digital Indicator for Linear Position
- Magnetic Mounting Stand
- Pulley Head



Digital Indicator for Linear Position



Magnetic Mounting Stand

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