

KTM Mini Bar Type Line Sensor

FEATURE:

- Stroke lengths available from 25 to 300 mm
- Spherical hinge could avoid lateral force
- Long service life: up to 30 million cycles
- Suitable for small space application
- Resolution rate is higher than 0.01mm
- Protection Grade is IP65 (install Down is IP57)
- 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	25 to 300 mm					
Repeated	<0.01 mm					
Resolution	Infinity					
Resistance	2 K Ω / 5 K Ω					
Resistance Tolerance	$\pm$ 20 %					
Load Resistance	100 K Ω					
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	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					

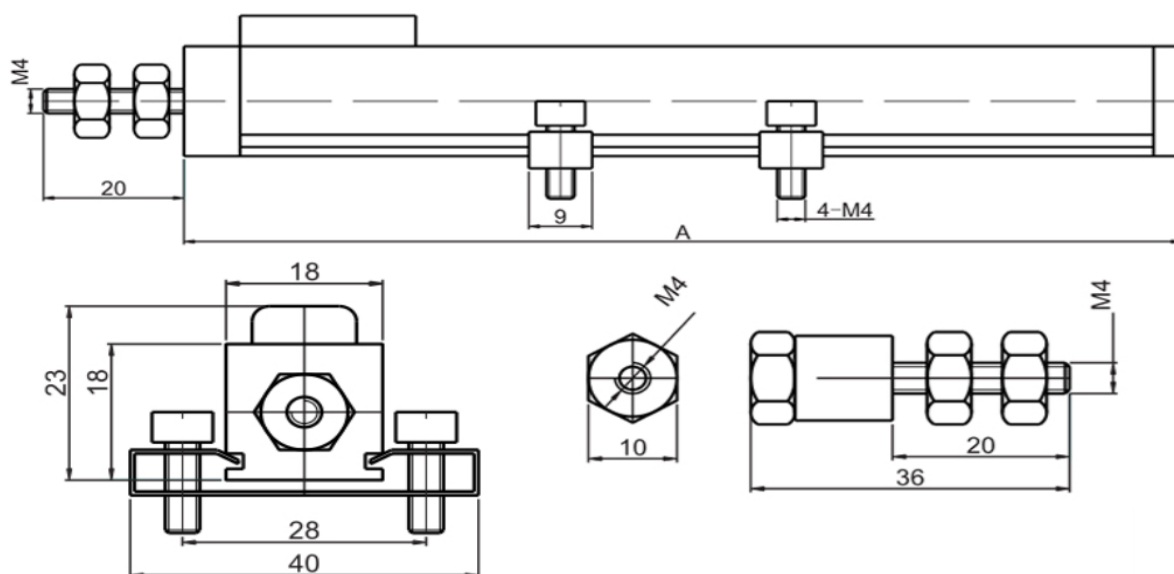
Specifications are subject to change. Please consult Welltek before placing an order.

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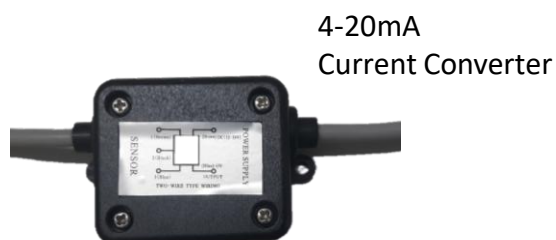
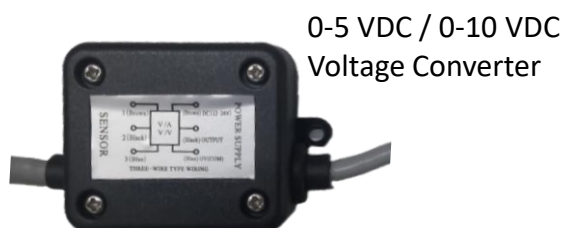
MODEL PARAMETERS

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	176.5	201.5	226.5	252	277	302
Standard Resistance (K Ω)	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	70	95	120	145	170	195	220	245	270	295	320	345
Mechanical stroke (size MT) ± 2 mm	30.5	55.5	80.5	106	131	156	181.5	206.5	231.5	257	282.5	307
Weight (Without accessories) g	52	61	70	79	79	88	97	107	127	137	147	157

DRAWING



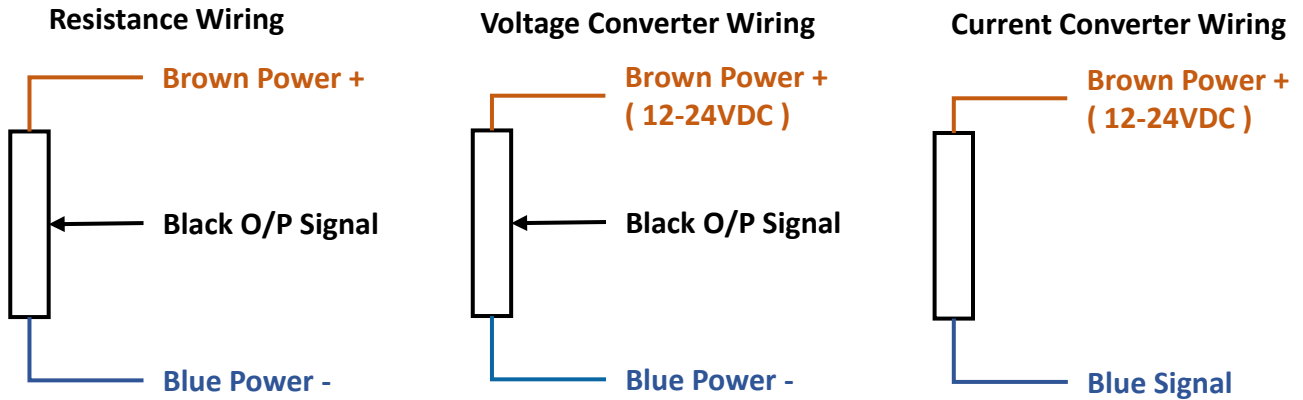
CONVERTER



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OUTPUT WIRING DIAGRAM



ORDER CODE

Scale type	OUTPUT Type	Stroke Length (mm)	Cable Length (meter)
KTM	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

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

ACESSORIES

STANDARD

- KTM mounting kit (1 Pull rod ball joint, 2 brackets, 4 screws)

ON REQUEST

- Digital Indicator for Linear Position
- Magnetic Mounting Stand



Digital Indicator for Linear Position



Magnetic Mounting Stand

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