

KPM Miniature articulated displacement sensor



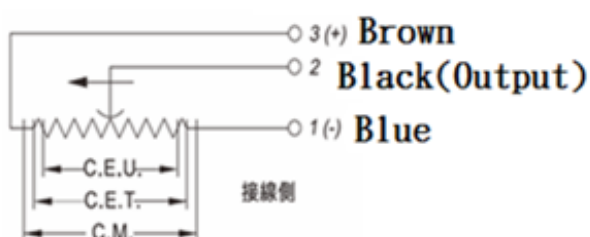
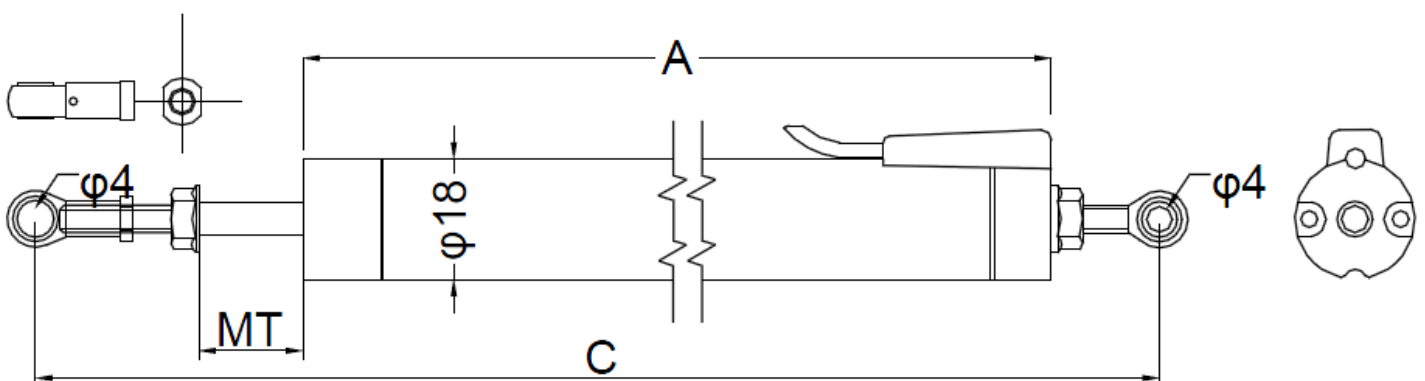
Characteristic:

1. Improved design to meet the measurement needs of various conditions ◦
2. The sensor is rugged and shock-resistant ◦
3. No electrical signal output changes after theoretical electrical travel, making installation easier ◦

Advantage :

- Long service life, up to 50×10^6 times ◦
- Small size.
- Higher resolution 0.01mm ◦
- High running speed ◦
- Ball joint for free movement at large angles ($\pm 12.5^\circ$) ◦
- Protection level IP67 ◦
- Configurable voltage and current (2-wire, 3-wire) modules

Installation dimension drawing:



Shipping standard:

Fish eye connector x2

KPM

Miniature articulated displacement sensor

Electrical-parameters	KPM	KPM	KPM	KPM	KPM	KPM	KPM	KPM	KPM	KPM
Model size	25	50	75	100	125	150	175	200	225	250
Nominal stroke (mm)	25	50	75	100	125	150	175	200	225	250
Electric stroke (mm)	25.5	50.5	75.5	101	126	151	176.5	201.5	226.5	252
Standard R(KΩ)	5	5	5	5	5	5	5	5	5	5
R tolerance	±5%									
Independent	0.3	0.25	0.15	0.1	0.08	0.08	0.08	0.05	0.05	0.05
Linearity(%)										
Repeatability precise	0.01mm									
Cusor current	≤1 μA									
Max cusor current	10mA									
Max power supply	42V									
Volts										
Coefficient Volts to	5 ppm/K									
Temp										
Insulation R	≥ 10MΩ									
(500VDC, 1bar, 2s)										
Insulation strength	≤100 μA									
(50Hz, 2s, 1bar, 500VDC)										
Mechanical Parameter										
Shell Length(A)	78	103	128	153	178	203	228	253	278	303
Mechanical stroke(M)	30.5	55.5	80.5	106	131	156	181.5	206.5	231.5	257
Pull ball displacement tolerance	±12.5° 偏差									
Vertical installation	≤0.4N									
Horizontal installation	≤1.1N									
Environmental parameter										
temperature range	-40~100°C									
Life time	>50X 10 ⁶ 次									
Impact resistance index	50g 6ms									
Working speed	10m/s 最大									
Protection class	IP65									