

KPZ-34 系列圆微型直线位移传感器

MINUO® 米诺 KPZ34-A



MINUO® 米诺 KPZ34-F



MINUO® 米诺 KPZ34-S



此微型位移传感器是专为直接绝对测量设计，行程为 400 毫米。微型设计适用于安装空间受限制的机械或机器。

改进技术使连接到电阻轨道(双修刻技术)确保更高的可靠性和线性度,而多触点电刷则有更稳定的输出信号,更能适用于极为恶劣的工作条件。

This mini position transducer is designed for direct absolute measurement and available in stroke length up to 400mm. The mini design is suitable for mounting in instruments or machines with limited space.

An improved technique for making connection to resistance track (Double Trimming Technique) ensures the higher degrees of reliability and linearity, while multi-fingers wipers stabilize output signals, even in the most adverse working conditions.

Unique Features 电气特征

Three mounting methods

三种安装方法

Stroke 行程 10-400mm

High Resolution infinite

高分辨率 无穷

Excellent Repeatability $\pm 0.01\text{mm}$

良好的重复性

KPZ34S-two adjustable brackets

KPZ34S-两个可调节支架

KPZ34A-two self-aligning ball joints

KPZ34A-两个自动对准球关节

KPZ34F-flange mounted

KPZ34F-法兰安装

Technical Specification

Sealing-KPZ34S/KPZ34A/KPZ34F IP60

Sealing-optional 密封-可选 IP65

Current 电流 Resistance 电阻 $\leq 10\text{mA}$

Wiper 电刷 $\leq 1\text{mA}$

Operating Force $\leq 0.5\text{N}$ (IP60)

移动力 $\leq 5\text{N}$ (IP65)

Power Consumption 功率消耗 3W-10W

Output Smoothness $< \pm 0.1\%$ against input voltage

输出平滑性 $< \pm 0.1\%$ 反输入电压

Input Voltage 输入电压 60 V Max

Insulation Voltage 500V-1 min Residue $< 5 \mu\text{A}$

绝缘电压 500V-1 分钟残留 $< 5 \mu\text{A}$

Environmental Parameters 环境参数

Very Long Life 超长寿命 $> 100 \times 10^6$ Cycles

Operating temperature 操作温度 $-50 \sim 120^\circ\text{C}$

Storage Temperature 存储温度 $50 \sim 120^\circ\text{C}$

Outstanding Linearity up to 出色的线性度 $\pm 0.05\%$

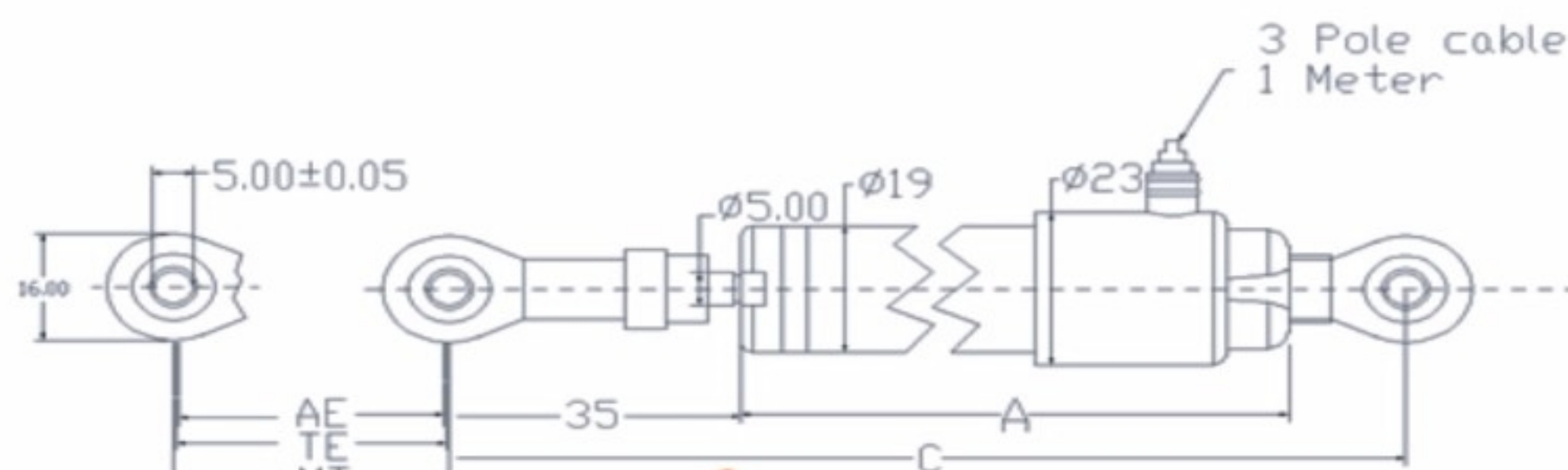
Operating Speed 使用速度 5m/s max

Vibration 振动系数 IEC 68-2-29: 1968 40g

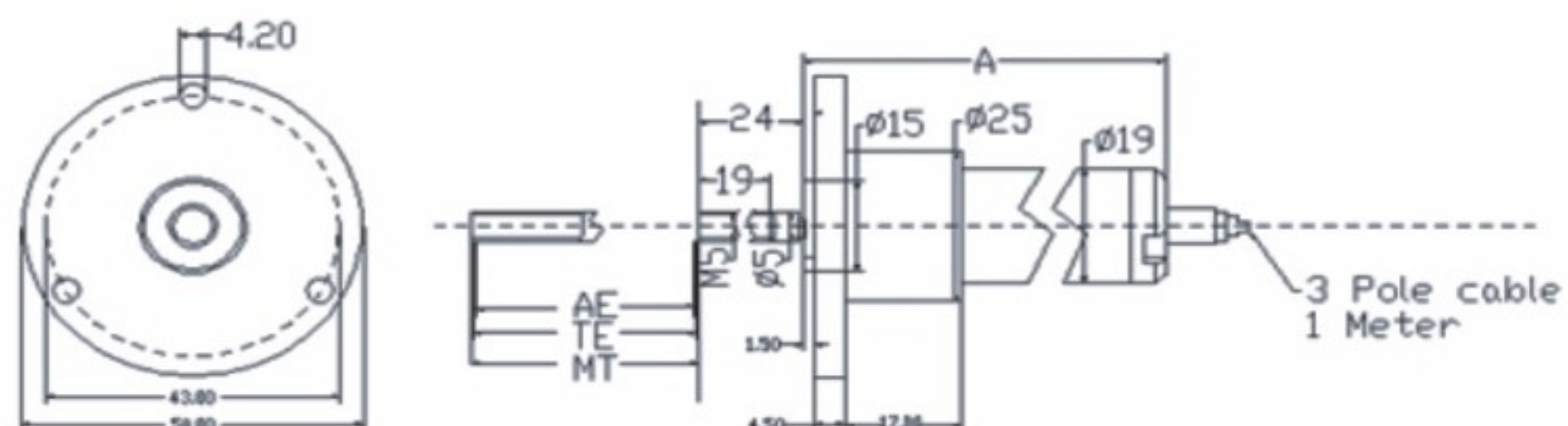
Shock 冲击系数 IEC 68-2-29: 1968 40g

Sealing 防水防尘能力 IP65

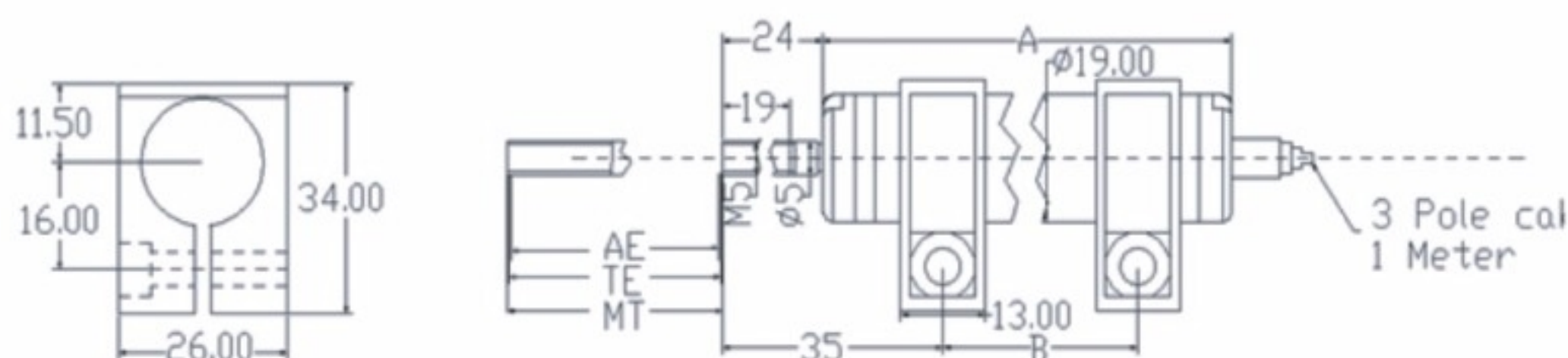
KPZ34-A



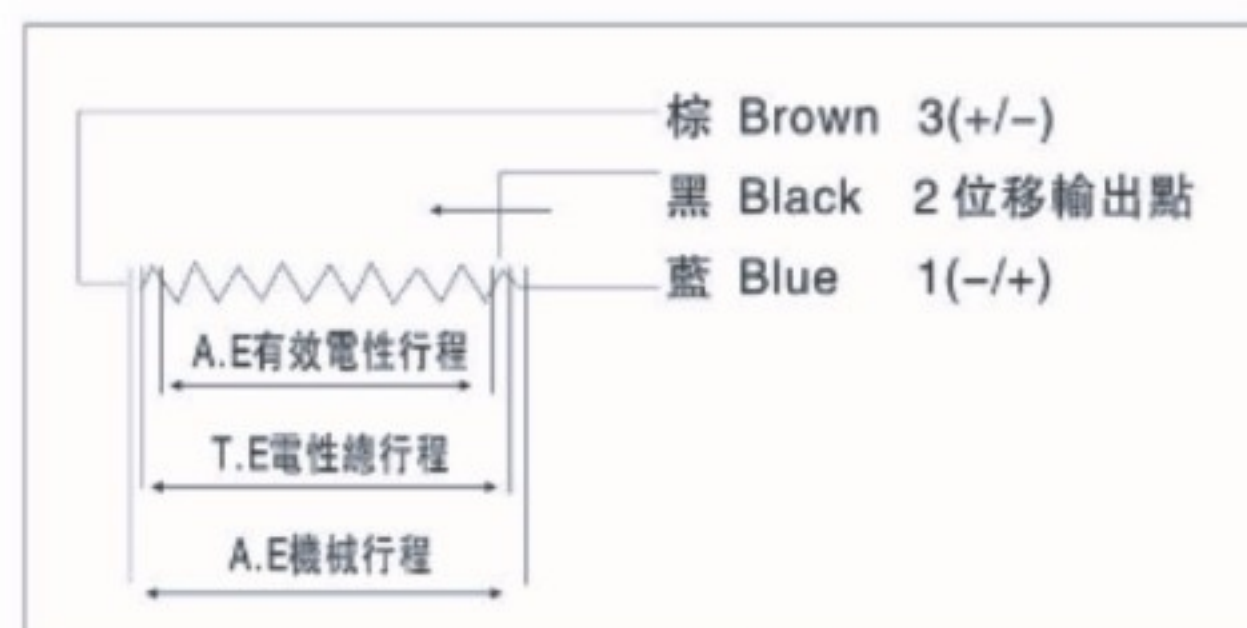
KPZ34-F



KPZ34-S



KP Z34—	S	Mounting by brackets 支架安装	length 行程	I. P. IP等级
	A	Mounting by self-aligning ball-joints 球窝自动调整		
	F	Mounting by flange 法兰安装		
MODEL 型号		10	P	Water Proof IP65 防水IP65
		25		
		50		
		75		
		100		
		125		
		150		
		200		
		250		
		300		
Other Lengths on requested, Specifications to be changed without notice. 其它长度要求, 规格变更恕不另行通知				



KPZ34 series	KPZ34 系列		10	25	50	75	100	125	150	200	250	300	350	400
Total Electrical Travel (T.E) 电气总行程	mm	11	26	51	76	101	126	151	201	251	301	351	401	
Active Electrical Travel (A.E) 可用电气行程	mm	10	25	50	75	100	125	150	200	250	300	350	400	
Resistance 电阻±20%	KΩ	1	1	5	5	5	5	5	5	5	5	5	5	
Independent Linearity 独立线性率	±%	0.3	0.2	0.1	0.1	0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	
Mechanical Travel 机械行程 (M.T)	mm	15	30	55	80	105	130	155	205	255	305	355	405	
Resolution 解像度		infinite 无限												
Temperature Range 使用温度范围	℃	-30~+100												
Dimensions A KPZ34-S	mm	68.5	83.5	108.5	133.5	158.5	183.5	208.5	258.5	308.5	358.5	408.5	458.5	
Dimensions A KPZ34-A	mm	95	110	135	160	185	210	235	285	335	385	435	485	
Dimensions A KPZ34-F	mm	68.5	83.5	108.5	133.5	158.5	183.5	208.5	258.5	308.5	358.5	408.5	458.5	
Dimensions B	mm	32	47	72	97	122	147	172	222	272	322	372	422	
Dimensions C	mm	148	163	188	213	238	263	288	338	388	438	488	538	
Net Weight KPZ34-S	g	70	90	105	130	160	175	190	215	245	275	305	335	
Net Weight KPZ34-A	g	90	110	125	150	180	195	210	235	260	290	320	350	
Net Weight KPZ34-F	g	80	100	115	140	170	185	200	225	255	285	315	345	