

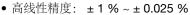
Vishay Sfernice

精密直线位移传感器,导电塑料,可变电阻 **Precision Linear Transducers, Conductive Plastic**



特性 FEATURES

• 测量行程: 25 mm ~ 450 mm



• 理论上无限分辨率

• 长使用寿命

• 防护密封等级,可以定制。

• 材料分类认证: 认证规格定义和体系, 产品标签说明 compliance please see www.vishay.com/doc?99912

The 34 L is a compact, accurate and adaptable motion transducer for both industrial and military markets.

QUICK REFERENCE DATA			
Sensor type	LINEAR, conductive plastic		
Output type	Wires		
Market appliance	Professional		
Dimensions	L x 19 mm dia. (with L = TET + 63 mm)		

电气参数 ELECTRICAL SPECIFICATIONS				
测量电气行程 (TET = E)	25 mm ~ 450 mm 每 25 mm 递增 in increments of 25 mm			
独立线性精度 (在 TET 范围) 可客户定制 On request	≤±1%-≤±0.1% ≤±0.05%对于E≥100mm ≤±0.025%对于E≥200mm			
实际电气行程 (AET)	见表 1			
电阻阻值 (R _T)	400 Ω/cm ~ 2 kΩ/cm			
电阻值误差 (在 20 °C 环境)	± 20 %			
重复性 Repeatability	≤ 0.01 %			
最大额定功率 power rating	0.05 W/cm at 70 °C, 0 W at 125 °C			
电刷电流 Wiper current	推荐电流: μA - 1 mA 最大 (连续)			
负载电阻 Load resistance	最小 Minimum 10 ³ x R _T			
电阻轨迹数 Number of tracks	1条轨迹;根据要求可以2条轨迹			
绝缘电阻 Insulation resistance	≥ 1000 MΩ, 500 V _{DC}			
介质强度 Dielectric strength	≥ 750 V _{RMS} , 50 Hz			

机械参数 MECHANICAL SPECIFICATIONS						
机械行程 Mechanical travel	TET + 2 mm min.					
外壳材料 Housing	氧化铝 Anodized aluminum					
移动工作力 Operating force 根据要求 On Request	0.35 N typical (standard model) 0.35 牛顿力 标准型	2.50 N typical (2.5牛顿力) (sealed model) 密封等级				
移动拉杆 Shaft (自由旋转 free rotation)	不锈钢 Stainless steel					
信号输出 Termination 可以要求 On request	3 根 PTFE AWG-30 线缆 长 L = 300 mm 导线线缆或航空插头,可以定制要求 cable or connector					
电刷 Wiper	精密金属多触头 Precious metal multifinger					
密封等级 Sealing	IP65 可根据要求 on request					

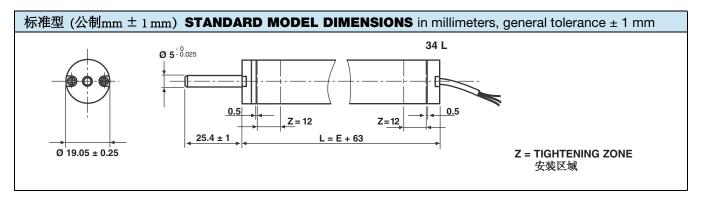
PERFORMANCE				
使用寿命 Operating life	25百万次往复周期 25 million cycles typical / 1 Hz/T° = 20 °C ± 5 °C/80 % TET			
温度范围 Temperature range	-55 °C ~ +125 °C			
三维正弦振动 Sine vibration on 3 axes	1.5 mm 峰值~峰值 (peak to peak) 或 15 <i>g</i> - 10 Hz - 2000 Hz			
三维机械震动 shocks on 3 axes	50 <i>g</i> - 11 ms - half sine 半正弦			

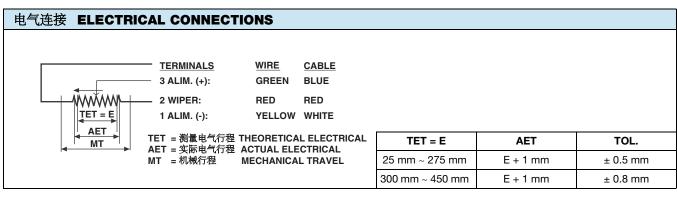
Note

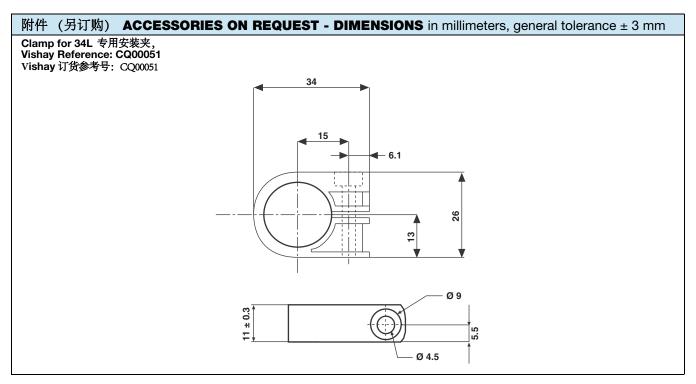
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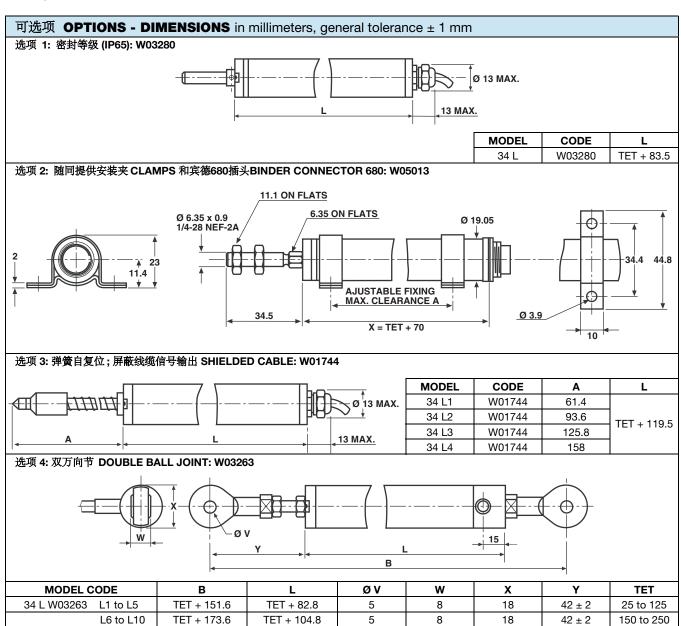




L11 to L12

TET + 230

Vishay Sfernice



订货型号说明 ORDERING INFORMATION/DESCRIPTION							
REC	34	L	3	D	103	W	e.
SERIES	MODEL	NUMBER OF TRACKS	THEORETICAL ELECTRICAL TRAVEL	LINEARITY	OHMIC VALUE	MODIFICATIONS	LEAD FINISH
		L = 1 track LL = 2 tracks	Times 25 mm	A: ± 1 % D: ± 0.1 % E: ± 0.05 % F: ± 0.025 %	First 2 digits are significant numbers 3 rd digit indicates number of zeros	Special feature code number	

5

8

18

 42 ± 2

275 to 300

TET + 161.2

SAP 订货型号	(除系列 SERIES不同,	其余同上)	SAP PART NUMBERIN	G GUIDELINES	
RE	34 L	3	D	103	W
SERIES	MODEL	TET	LINEARITY	OHMIC VALUE	SPECIAL FEATURES



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