精密直线位移传感器。导电塑料(LMT)

Linear Motion Transducer, Conductive Plastic



LMT series , Simple mounting , robust , high precision Designed with Vishay/ sfernice's Kit in the transducer

Features

- Measurement range:25mm to 1000mm
- High accuracy:±1% down to ±0.025%
- Excellent repeatability
- Essentially infinite resolution
- Non sensitive to temperature variations
- Key element fit to RoHS compliant
- Analog DC Voltage without AD module)
- Analog output : 4-20mA / 0-5/10V *

电气参数	ELECTRICAL DATA
Theoretical Electrical Travel	From 25mm to 900mm
(TET=E)	in incremetns of 25mm
Independent Linearity	E≤175mm, ±1%~±0.05%
	E≥200mm _. ,±1%~±0.025%
Actual Electrical Travel:	AET=E+2±0.5mm _: (E≤275mm)
	AET=E+2±1.5mm, (E > 275mm)
Ohmic Values(RT)	65 Ω——2 KΩ/cm
Resistance Tolerance	±20% (at 20 environment)
Repeatability	0.01%(Max)
Load Resistance	1000XRT(min)
Insulation Resistance	>1000MΩ, 500 VDC
Dielectric Strength	750 Veff, 50HZ
Permissible load voltage	5-27/cm(40 °C)
Wiper Current	Recommended: a few μA-1mA max
Temperature drift	\triangle R $<$ 10 Opp m/C°
coefficient of resistance	\triangle V \leq 25ppm/C $^{\circ}$
Potection circuit	The sensor contains a protective circuit
	to overload of current and voltage
Output	Analog DC Voltage (Without AD module)
	4-20MA, ±5V, ±10V, 0-5V, 0-10V
* 需内置信号变送器,	(技术参数详见: FL-EMB100, 模拟
信号变送器电路板说明	++)

机械参数	MECHANICAL DATA
Mechanical Travel	MT=TET+8±2mm
Length of the shell	TET+74.5mm
Surface of the shell	Anodic alumina
Front and rear plastic	Blue
Operating Force	7.5 N typical
Shaft	Stainless steel
Electrical connector	Hydraulic type connector
Termination	DIN 43650
Wiper	Precious metal multifinger
Mounting	Movable brackets
Sealed to	IP53
NOTICE: Please don't screw without permission. It will affect the anti-vibration and impact effect of the sensor	

环境参数-	ENVIRONMENTAL DATA	
Operating Life	50 million cycles typical	
Temperature Range	-30 °C to +85 °C	
Speed	2.5m/s Max)	
Sine Vibration on 3Axes	1.5mm peak to peak	
	15g-10HZ-2000HZ	
Mechanical Shocks on 3 Axes 50g-11ms		

Dimensions in millimeters, general tolerance±1mm





