

## 位移传感器 Linear Sensor

### 产品介绍 General Description

霍尔位移传感器是一种通过改变磁极与霍尔元件的相对位置时，即可得到输出电压，电压大小正比于位移量。保持霍尔元件的工作电流不变，使其在一个均匀梯度磁场中移动，产生的霍尔电压值只由它在该磁场中的位移量来决定，霍尔传感器所测得数据可以通过微机进行处理后直接显示出被测量数据或将被测量数据供各种控制系统使用。

Hall displacement sensor is a kind of output voltage which can be obtained by changing the relative position between magnetic pole and Hall element. The voltage is proportional to the displacement. It moves in a uniform gradient magnetic field.

The Hall voltage output is determined only by its displacement in the magnetic field. The data measured by Hall sensor can be processed by a computer to display the measured data directly or to be used by various control systems



刹车主缸位移传感器  
Hall Displacement Sensor

### 产品特征及优势 Feature and benefits

- ◆ 尺寸小 Small in size
- ◆ PWM或模拟量输出 PWM/Analogue output
- ◆ 工作可靠 Reliable
- ◆ 非接触式 Contactless

### 产品应用 Application

- ◆ 制动主缸 Braking master cylinder
- ◆ 离合器主缸 Clutch master cylinder
- ◆ 驻车锁位移 Park lock position

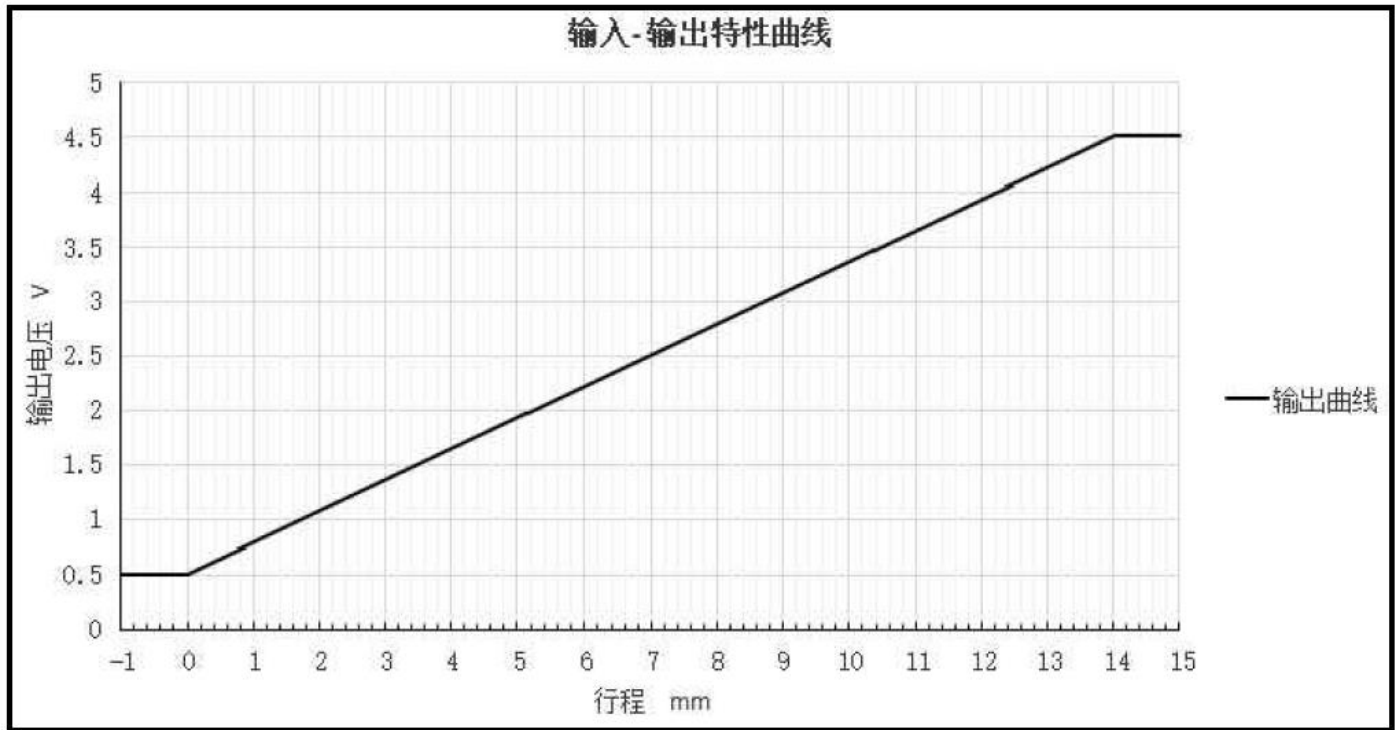
### 产品参数说明 Functional Characteristics

- ◆ 产品参数 Product parameters

参数 parameter	符号 Symbol	测试条件 Testing conditions	最小值 Minimum value	最大值 Maximum value	单位 Unit
供电电压 Power supply voltage	$V_{DD}$		4.5	5.5	V
输入电流 Input current	$I_{DD}$	$V_{DD}=5V$		15	mA
输出电流 Output current	$I_{OUT}$		-15	15	mA
负载阻抗 Load impedance	$R_L$		1	$\infty$	K $\Omega$
负载电容 Load capacitance	$C_L$			330	nF
响应时间 Response time	$T_s$			1.5	ms
上电时间 Power on time	$T_{SU}$			10	ms
非线性误差 Nonlinear error	$E_{NL}$		-3	3	% $V_{DD}$

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- ◆ 输出电压 (Output voltage) vs 行程 (Stroke)



可根据需要定制，详情请联系KESENS研发部。

Custom specifications can be designed to meet any need, please contact KESENS design department for details.