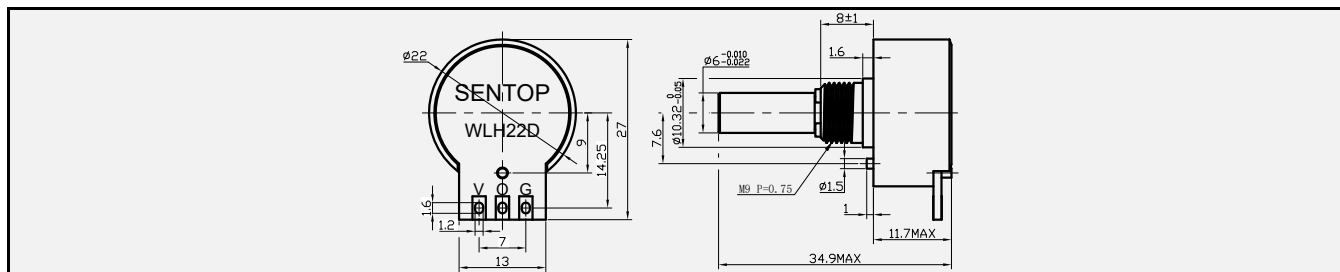


# WLH22D



- ◆ 磁敏传感器 / Magnetic rotary sensor
- ◆ 低价位型 / Low cost version
- ◆ 塑料壳体 / Plastic housing case
- ◆ 轴套安装 / Bushing mount
- ◆ 线路板接线 / Solder pads

## ■ 标准尺寸 / Standard Dimensions



## ■ 选型指导 / Selection Guide

例 / Example : WLH22D 0505 P W360

WLH	→ 产品系列 / Series	WLH	低价位型数字电位器 / Low cost version contactless potentiometer
22D	→ 外径系列 / Dimensions	22D	壳体外径Φ22mm / Housing diameter Φ22mm
0505	→ 工作电压 / 输出信号 Input voltage / Output signal	0505	5V±10% / 0~100%Vcc
P	→ 输出方式 / Output characteristics	无 / None	单路输出 / Single output
		P	双路平行输出 / Dual parallel output
		X	双路交叉输出 / Dual cross output
W	→ 输出方向 / Output direction	W	顺时针 / Clockwise
		C	逆时针 / Counterclockwise
360	→ 有效电气转角 / Effective electrical angle	360	可选360°以内任意角度 / Any angle within 360°

注2 Note.2

Note1

### 特殊输出幅度 / Special output range

→ 可根据客户要求, 提供标准输出幅度范围内任意幅度的信号, 如10%~90%等。  
 Any output range within 0%~100% can be provided, as 10%~90%, etc.

Note2

### 特殊电气转角 / Special electrical angle

→ 可提供360°以内任意有效电气转角的产品, 在非有效电气区域, 可做高位保持、低位保持或两端保持, 保持角度可由客户指定。  
 Available for special effective electrical angle within 360°. output within non-effective electrical angle within 360°. output within non-effective electrical angle can be held on high, low and both ends. If the effective electrical angle is less than 45°, independent linearity tolerance and resolution will be influenced. For more details, please contact with us.

## ■ 一般机械性能 / General Mechanical Specifications

机械转角	Mechanical angle	360°(连续旋转Endless)
质量	Mass	Approx.12g
防护等级	Protection degree	IP40
旋转力矩	Operating torque	<5mN·m
最大机械转速	Max.mechanical speed	1500rpm
预期寿命	Life expectancy	50,000,000
外壳	Housing material	塑料 Plastic
轴	Shaft material	不锈钢 Stainless steel

## ■ 环境特性 / Environmental Specifications

工作温度	Operating temperature range	-30°C~+85°C
储存温度	Storage temperature range	-30°C~+85°C
ESD	ESD durability	接触放电 (Contact discharge) ±8KV, 空气放电 (Aerial discharge) ±15KV, EN61000-4-2:2009
EMS	EMS durability	10V/m (80MHz~1GHz, 1KHz80% 调幅 Amplitude modulation), EN61000-4-3:2006+A1:2010

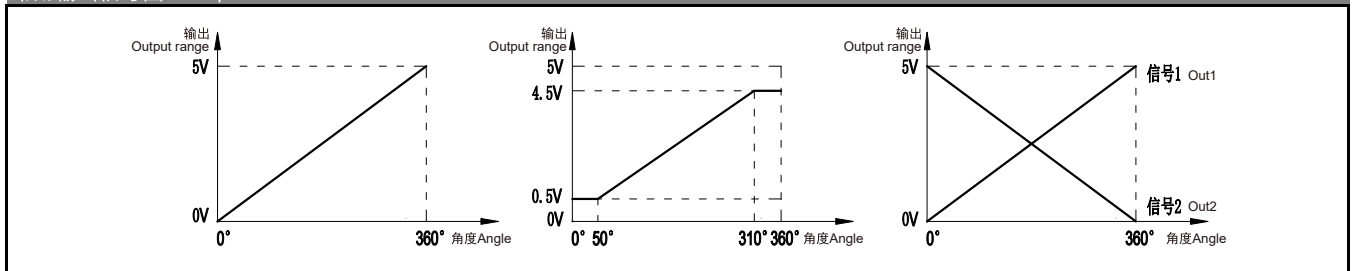
## ■ 一般电气性能 / General Electrical Specifications

标准型号	Standard model	WLH22D 0505 W360
工作电压	Input voltage	5V±10%
输出信号	Output signal	0~100%Vcc
工作电流(无负载)	Current consumption (no-load)	<16mA
始末端输出偏差	Output deviation at both ends	<1%·VCC
负载电阻	Load resistance	>10KΩ
有效电气转角	Effective electrical angle	360°
独立线性公差	Independent linearity tolerance	±0.5%
分辨率	Resolution	4096 (12 Bit)
更新速度	Update rate	0.3ms

### 接线说明 / Terminal connection instructions

V	G	O
电源正端 VCC	电源负端 GND	输出信号 OUT

### 常用输出信号图 / Output characteristics



## ■ 特殊可选规格 / Special Specifications Available

特殊轴型 / Special shaft	可根据客户要求定做特殊轴长、特殊轴径或轴上特殊加工（铣平面、开槽、端部打孔、侧面打孔等）。 Special length of shaft、special diameter or special machining on shaft (like shaft slotted、fatted etc.)
特殊力矩 / Special torque	可提供<10mN·m的高力矩产品。 Products available for high torque <10mN·m.

\* 如有其他特殊要求请与我们联系。 For other special requirements ,please contact with us.

(当产品带特殊规格时，其一般机械/电气性能和环境性能可能发生改变，请预先同我们确认。 In case of the potentiometer with special specifications, the general mechanical、electrical specifications and environmental specifications may change. Please consult with us in advance.)

(为了不断改进质量和设计，所有内容均可能在没有事先通知的情况下进行改进。 All details given in this catalog may be subject to change without prior notice in order to continuously improve qualities and designs of our products.)