



◆ 产品特点

- 体积小，重量轻，方便安装
- 2路正交输出信号 (A,B)
- 外径30mm，轴径4mm

◆ Features

- Miniature size, easy assembling
- 2 quadrature output channel (A&B)
- Housing size 30mm, solid shaft dia. 4mm

◆ 型号说明 Ordering Information

ZSP3004	-	001E	-	100	B	-	5	L
		分辨率/Resolution		工作电压/Supply Voltage		输出方式/Output Mode		
		100 200 300 360 400 500		5: 5V DC 5-12: 7~12V DC 12-24: 12~24V DC 5-24: 7~24V DC		E: 电压输出/TTL C: 集电极开路NPN/Open Collector NPN F: 推拉输出/Push-Pull L: 长线驱动/Line Driver		

备注 / Note:

1 下单前请联系销售人员确认型号

Please contact sales representative to confirm the correctness and availability of the part number

2 长线驱动仅5V可选

Line Driver only available with 5V DC option

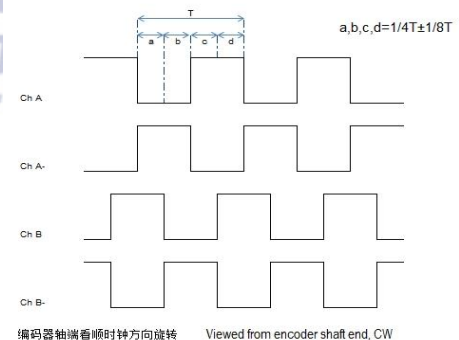
◆ 技术参数 Technical Specifications

参数/Parameter	标准数值/Typ Value	备注/Note
电源电压/Supply Voltage	DC 5V/7~24V ($\pm 10\%$)	*1 最大响应频率受限于最大转速
最大响应频率/Max. Response Frequency	60 kHz	Max. response frequency is gated by max. rotation speed
最大转速/Max. Rotation Speed (*1)	3000 rpm	
最大消耗电流/Max. Current Consumption	120mA (空载/Unloaded)	
最大上升-下降时间/Max. Rise-Fall Time	200ns (长线驱动/Line Driver)	
最大上升-下降时间/Max. Rise-Fall Time	1us (其他输出/Other Output Mode)	
工作温度/Operating Temperature	-20 ~ 85°C	
储存温度/Storage Temperature	-20 ~ 85°C	
湿度/Humidity	90% 无结露/no condensation	
防护等级/IP Rating	设计防护等级IP54 by Design	

◆ 接线表 Connection Table

接线颜色 Color of Lead Wire	绿 GN	白 WH	红 RD	黑 BK	屏蔽线 Shield	棕 BN	灰 GY
输出信号-长线驱动 Output- Line Driver	A+	B+	Vcc	0V	NC	A-	B-
输出信号-其他输出 Output- Other Mode	A+	B+	Vcc	0V	NC	NC	-

◆ 输出波形 Output Waveform



◆ 产品尺寸 Dimensions

