

产品参数 Encoder characteristics

型号	Type	ENX90N				
机械参数 Machine characteristics						
最大转速	Max. speed(min ⁻¹)	2500r/min				
防护等级	Protection rating	IP65				
启动力矩	Starting torque	7.5x10 ⁻² N.m Max..				
重量	Weight	0.60Kg (Without cable)				
最大径向负载	Max.shaft load radial	80N				
最大轴向负载	Max.shaft load axial	40N				
抗冲击	Shock resistance	1000m/s ² ,6ms				
抗振动	Vibration resistance	100m/s ² ,10...200Hz				
电气参数 Electrical characteristics						
输出电路 ¹⁾	Output circuit	C	E	F	L	FL
电源电压	Supply voltage	5±0.25VDC, 10-30VDC			5±0.25VDC	10-30VDC
消耗电流	Current consumption	80mA			150mA max.	
上升时间	Rise time t _r	1us		200ns	100ns	
下降时间	Fall time t _f	1us		200ns	100ns	
允许负载/通道	Permissible load/channel	Max. 30mA			Max. 20mA	
信号高电平	Single level high	Min.Vcc*70%			Vcc≥ 2.5V	Min.Vcc*70%
信号低电平	Single level low	Max.0.5V		Max.1V	Max.0.5V	
其他参数 Other characteristics						
工作温度 ²⁾	Operating temp.	-10°C...+70°C	-20°C...+85°C			
贮存温度	Operating temp.	-20°C...+80°C	-25°C...+100°C			
最高响应频率	Max. Output frequency	100KHz	100KHz	200KHz	400KHz	800KHz
脉冲数 ³⁾ P/R	Resolution P/R	1~1024	250,256,500,512,600 900,1000,1024,2000 2048,2500	720,2000,2048,2500 3000,3600,4000,4096 5000	1440,4000,4096,5000 6000,7200,8000,8192 10000	2880,8000,8192,10000 12000,14400,16000 20000

1) 详细电路见 P10 1.3 See detailed circuit P10 1.3
输出波形见 P10~12 1.4 See output waveform P10~12 1.4
2) -40°C...+100°C 可定制! -40°C...+100°C can be customized!
3) 特殊脉冲数定做，请咨询工厂。
Special Resolution , when you order it, please consult the factory.

接线表 CONNECTION TABLE

GB

输出电路形式	线色	白	黑	红	绿	黄	粉	蓝	橙	屏蔽
Output circuit	Color	White	Black	Red	Green	Yellow	Pink	Blue	Orange	Shield
C,E,F	信号 Signal	Vcc	0V	A	B	Z	-	-	-	- ¹⁾
L,FL	信号 Signal	Vcc	0V	A	B	Z	A\	B\	Z\	- ¹⁾

*1: G：屏蔽接壳；
Cable shield connect to the cover;
CG：壳与0V间接0.01u/630V，屏蔽接壳；
Between the cover and 0V connect 0.01u/630V,cable shield connect the cover;
-：屏蔽不接壳。
Cable shield donn't connect the cover.