Incremental Encoder Emulator Model JI-820

Jupiter li	nstrun	าents
------------	--------	-------

Woder 31-020	Ver 0.
Electrical Specifications	Preliminary 10/9/2017 Editio
General	
Signals	A, /A, B, /B, Z, /Z
Phase Resolution	Selectable: 1, 5, 10, 45, or 90 degrees
Cycles per Revolution (CPR)	Programmable: 1 to 1,00,000
Pulses per Revolution (PPR)	Programmable: 4 to 4,000,000 (4 pulse increments)
Frequency Range, Cycle	Phase Resolution Freq. Max. Freq. Min. Resolution
	90 5.00 MHz 10.0 Hz 50 nS 45 2.50 MHz 5.00 Hz 100 nS 10 0.55 MHz 1.11 Hz 450 nS 5 0.27 MHz 0.55 Hz 900 nS 1 0.05 MHz 0.11 Hz 4500 nS
Position Tracking:	
Revolutions Cycle Phase	-2 ³¹ to 2 ³¹ -2 ³¹ to 2 ³¹ 1 to 4
Operational Modes	Free Run, Single-Step, Move Pulse Count
Index Signal (Z)	
Position Polarity	Programmable: +/- 1 cycle span (max) Selectable: Positive or Negative Pulse
Output	
Type Voltage Source Internal	RS-422, Open Drain, Push-Pull, Push-Pull Complementary Internal or External
Voltage Current	Adjustable 5.0V to 28.0V (100mV increments) Sink: 100 mA (max per signal) Source: 30 mA max per signal (90 mA combined)
External Voltage Current	4.5V to 30.0V Sink/Source: 100 mA (max per signal)

Electrical Specifications (continued)



Connector	:	
	Туре	Standard 9-Pin, D-sub, Female
	Pin-outs	Pin 1 = External Voltage (Input)
		Pin 2 = Z
		Pin 3 = A
		Pin 4 = B
		Pin 5 = GND
		Pin 6 = GND
		Pin 7 = /Z
		Pin 8 = /A
		Pin 9 = /B
LED		
Power		Power-On
Activity		Output Signal Activity
PC Interfac	e	
Communica	ation	USB 2.0 Full Speed
Connector	onnector Standard type B socket	
Power 5V @ 270mA (Nor		5V @ 270mA (Nominal max), USB supplied
		5V @ 690mA (Absolute max)

Mechanical and Environmental Specifications

Mechanical		
Dimension	3.3" x 1.1" x 5.0" (WxHxL)	
Weight	0.2lbs	
Construction	Extruded Aluminum Enclosure	
Environmental		
Operating Temperature	0C to 50C	
Storage Temperature	-20C to 70C	