Incremental Encoder Emulator Model JI-820

Jupiter	Instruments
CUPILOI	III IOLI GIII IOI ILO

Model JI-82	20	Jupiter Instruments
Electrical Sp	ecifications	Ver 1.4 4/15/2020 Edition
General		4/ 10/2020 Edition
Signals		A, /A, B, /B, Z, /Z
Pulses per Re	volution (PPR)	Programmable: 1 to 1,00,000
Counts per Re	evolution (CPR)	Programmable: 4 to 4,00,000
Signal Phase	Resolution	Selectable: 1, 5, 10, 45, or 90 degrees
Frequency Ra	nge, 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 10 555 KHz 1.11 Hz 450 nS 5 277 KHz 0.55 Hz 900 nS 1 55.5 KHz 0.11 Hz 4500 nS
Position Track	king:	
C	Revolutions Cycle Phase	-2 ³¹ to 2 ³¹ -2 ³¹ to 2 ³¹ 1 to 4
Operational M	lodes	Free Run, Single-Step, Pulse Move
Index Signal (Z)	
	Position Polarity	Programmable: +/- 1 cycle span (max) Selectable: Positive or Negative Pulse
Output		
Т	-ype	Selectable: RS-422 Open-Drain Push-Pull Push-Pull Complementary
V	/oltage Source	Internal or External
	Internal Voltage Current	Adjustable 5.0V to 18.0V (100mV increments) Sink: 100 mA (max per signal) Source: 30 mA max per signal (90 mA combined)
	External Voltage Current	5.0V to 30.0V Sink/Source: 100 mA (max per signal)
F	Short-Circuit Protection Dutput Control	Internal and External Enable/Disable Output
	1	

Electrical Specifications (continued)

Compostor	••	
Connector	r:	
	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 = IZ
		Pin 8 = /A
		Pin 9 = /B
LEDs		
	Power	Power-On
	Activity	Output Signal Activity
PC Interfa	ce	
	Communication	USB 2.0 Full Speed
	Connector	Standard type B socket
	Power	USB supplied
		Current Draw: 270mA (Nominal)
		690mA (Maximum @ max. signal load)

Mechanical and Environmental Specifications

Mechanical		
Dimension	3.3" x 1.1" x 5.0" (WxHxL)	
Weight	0.2lbs	
Construction	Extruded Aluminum Enclosure	
Environmental		
Operating Temp	0C to 45C	
Storage Temp	-20C to 70C	