PICO_USB2PED

GNU GENERAL PUBLIC LICENSE Version 3, 29 June 2007 Version 1.0 by PM490 $\,$

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Control Characters

	Char	Hex
Pulse Output	Р	50
Pulse Off	р	70
Enable High	E	45
Enable Low	е	65
Direction High	D	44
Direction Low	d	64
Turn	Т	54
LED High	L	4C
LED Low	1	6C

Set Pulses per Turn

Pulses/Turn	Char	Hex
200	0	0x30
400	1	0x31
800	2	0x32
1,600	3	0x33
3,200	4	0x34
6,400	5	0x35
12,800	6	0x36
25,600	7	0x37
51,200	8	0x38

Frequency Selection

Frequency (Khz)	Period (uSec)	Char	Hex
7.94	126	*	2A
7.04	142	&	26
6.02	166	^	5E
5.00	200	%	25
4.00	250	\$	24
2.99	334	#	23
2.00	500	@	40

Serial Settings for Raspberry Pi

Python

```
# Set serial for pico-transport
ser = serial.Serial()
ser.port = '/dev/ttyACM0'
ser.baudrate = 115200
ser.bytesize = 8
ser.stopbits = 1
ser.parity = 'N'
ser.timeout= 2
ser.rtscts = 0
ser.open()

# Read PICO Startup Line
received_startup = ser.readlines()

# Command Format Examples:
ser.write(b'4')  # Set Pulses per Turn to 3200
ser.write(b'L')  #Set LED pin to High
ser.write(b'l')  #Set LED pin to Low
```

PINOUT

