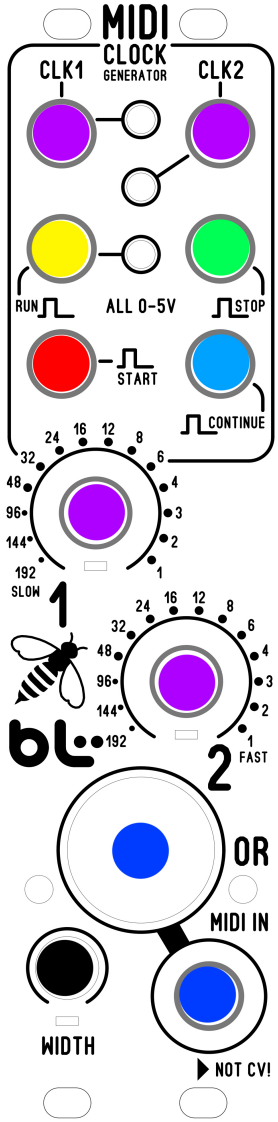
BLM MIDI TO PULSE CLOCK MODULE



Violet Color Outputs and Clock Selector Knobs: Clock 1 and Clock 2 with clock divider knobs.

-Each clock can be set for rates between 1 clock pulses per 4

bars to 12 clock pulses per quarter note. Clock outputs are 0-5V.

-Two independent 0-5V clock outputs at selectable submultiples of the 24ppqn rate of Midi Clock.

Knob setting: Clockwise the clock is fast, counter clockwise the clock pulse gets slower.

Black Width Small Knob: sets the pulse width for the event outputs. This does not swing or alters the clock pulse.

Yellow Output: Run out. 0-5v gate held high as the midi clock input is running.

Red Output: Start Pulse 0-5v event. This happens as the midi clock goes from stopped, to running.

BLM MIDI TO PULSE CLOCK MODULE

Green Output: Stop Pulse out. 0-5v. This event happens when the midi clock goes from a running state to a stop state.

Blue Output: Midi Continue Output Pulse. 0-5v. You need a Midi Continue Message to happen in order to use this output. This is a very rare midi message. Older gear uses these messages. I included it in case someone has older midi gear that they would like to hook up to this product.

It is normal behavior to get nothing out of the continue jack, because most modern gear does not generate a midi continue message.

**Midi Din and 3.5mm Midi Jack is an 'or' situation. You are to patch a din jack 'or' use a 3.5mm custom midi cable. Just don't use both or connect a CV input into the bottom Midi Input.

**Blowing out the Opto-coupler is rare. But if you accidently connect a CV patch cable into Midi Input and midi stops working you can replace the opto coupler. The Part is: 6N138N. There is a 8 pin socket located on the back of the module.

It is normal behavior when nothing is patched into this product that the led's are off. In order to see some action you need to connect a midi device with 'play', start stop functions. For example a drum machine, Akai force, groove boxes, your DAW audio interface with midi outputs. The leds will sync with every start and stop event.

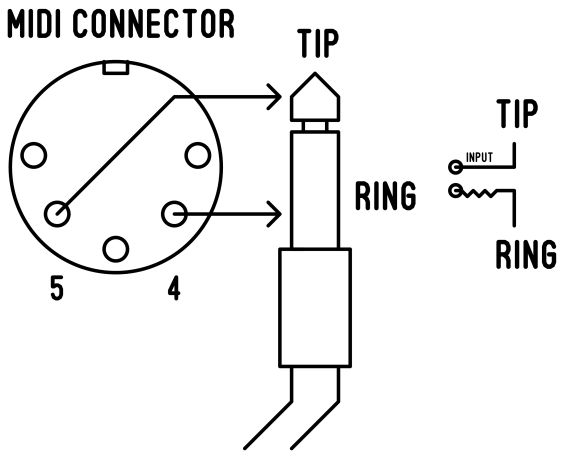
It is normal behavior for the clock timing of both channel's high and low pulses to get out of sync as you turn the clock knobs. They will resync with the next start and stop event, or midi reset event.

Model: BLM MIDI to Pulse

Width: 6hp

Current: +5mA, -0v Not Applicable

SCHEMATIC FOR THE MIDI 3.5MM JACK



Here is the knob numbering information:

1 = 12 clocks per quarter note

2 = 6 clocks per quarter note, 1/16th note triplets

3 = 4 clocks per quarter note, 1/16th notes

4 = 3 clocks per quarter note, 1/8th note triplets

6 = 2 clocks per quarter note, 1/8th notes

8 = 1.5 clocks per quarter note, 1/4 note triplets

12 = 1 clock per quarter note, straight 1/4 notes

16 = 3 clocks per bar, 1/2 note triplets

24 = 2 clocks per bar, 1/2 notes

32 = 1.5 clocks per bar, whole note triplets

48 = 1 clock per bar, whole notes

96 = 1 clock per two bars

144 = 1 clock per 3 bars

192 = 1 clock per four bars