



## 2X A/B dual passive selector

Manual V1.0

The 2XA/B module is a passive utility with two independent "A/B selectors":

In the upper part, an A/B switch with output attenuators and a selector "latching" (with holding position).

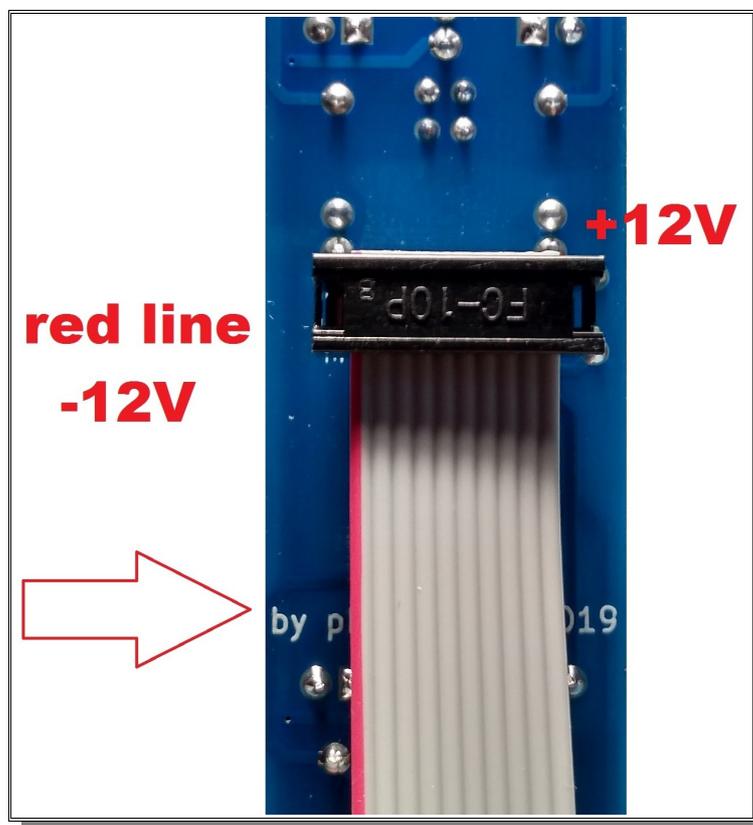
In the lower part, an A/B switch with a multiple on each output and a "momentary" selector (the lever returns to its central "off" position once released). Choice of 1 IN to 2X2 OUT or 2 IN to 1 OUT.

All signals are accepted.

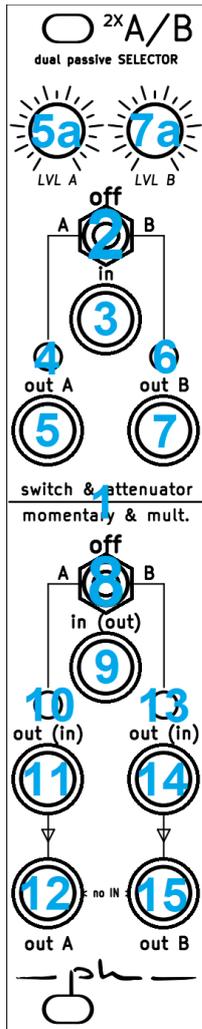
### Connecting the ribbon cable

! Be careful to always respect the connection direction of the tablecloth: by convention, the colored part (usually red / pink) of the ribbon represent **-12V** !

Note : on all PCB —  —, the -12V « red line » is screen printed near the power connector.



## Presentation



1: The screen printing allows the distinction between the two parts of the module

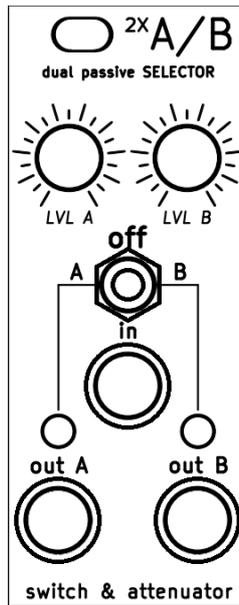
### Section Switch & attenuator

- 2: OUT A (or) Off (or) OUT B selector
- 3: IN connector
- 4: Led active when channel A is selected
- 5: OUT A connector
- 5a: Attenuator linked to OUT A
- 6: Led active when channel B is selected
- 7: OUT B connector
- 7a: Attenuator linked to OUT B

### Momentary & multiple section

- 8: OUT (in) A (or) Off (or) OUT (in) B switch
- 9: IN connector (OUT)
- 10: Led active when channel A is selected
- 11: OUT (in) A connector
- 12: OUT A connector (multiple of the previous one)
- 13: LED active when channel B is selected
- 14: OUT (in) B connector
- 15: OUT A connector (multiple of the previous one)

## Section switch & attenuator



This section of the module (independent of the other) allows to have an input oriented to two outputs to choose from. Each output has its attenuator.

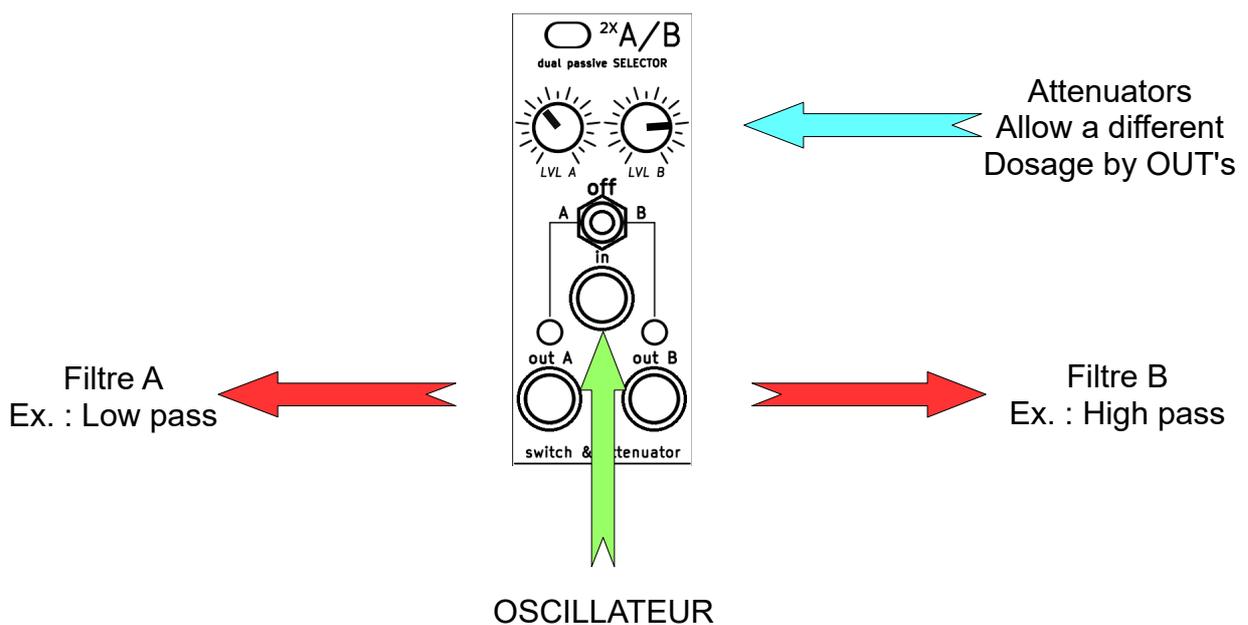
A signal entering **in** can be either:

- directed to **out** (the white warm LED lights up under the action of the selector)
- muted (central position off)
- directed to **out B** (the green LED lights up under the action of the selector)

An attenuator for each output channel allows you to measure the intensity of the signal sent. .

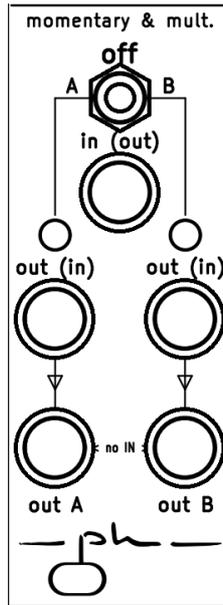
### Examples of use

An oscillator that can be directed to an A or B filter



(instead of the OSC, we can imagine an LFO sent to two destinations, with two different "dosages" thanks to the attenuators, or a CV signal volt / octave, which will be directed to 2 different v / o inputs, etc. ..)

## Section momentary & multiple



This section of the module (independent of the other) makes it possible to have an input oriented towards two outputs multiplied with the choice, or, conversely, two entries with choice towards an exit.

The particularity of this stage is that the selector is **momentary**: the signal is only routed by the action on the lever. Once released, it returns to its central position (off).

### **Silkscreening represents both options:**

Option 1 = 1 IN to 2 OUT, read the normal font

Option 2 = 2 IN to 1 OUT, read the font in parenthesis

Option 1) An incoming signal **in** (~~out~~) can be either:

directed to **out** (~~in~~) + out A (the white LED lights up under the action of the selector)  
mutated (central position Off)

directed to **out** (~~in~~) + out B (the blue LED lights up under the action of the selector)

Option 2) Two incoming signals ~~out~~ (**in**) A and ~~out~~ (**in**) B can be either:

directed to ~~in~~ (**out**) (the LEDs concerned light up according to the selected input)

mutated (central position off)

**Attention, it is not recommended to use OUT A + OUT (in) towards IN (out). The module is not intended to propose the summation of the signals. Silkscreen recalls this detail.**

The examples of uses can be modeled on the previous ones, the philosophy of this part being similar. The fact of having opted for a "momentary" selector brings a faster and temporary interaction in a "live" game.

## Characteristics

Size 5hp (2,5 cm), epoxy black panel 1,6 mm.

Deep : 25mm with connector (skiff friendly).

PCB in epoxy FR4 dual layer, 1,6 mm. Surface finish HASL.

Ribbon cable, M3 and nylon nuts inc.

Consumption : ~9 mA (+12V) / ~0 mA (-12V)

Components tested and assembled by hand, in Brittany, France.

*thank you for your trust  
Feel free to give me your opinion, criticism or wishes ...  
Other modules are coming*

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