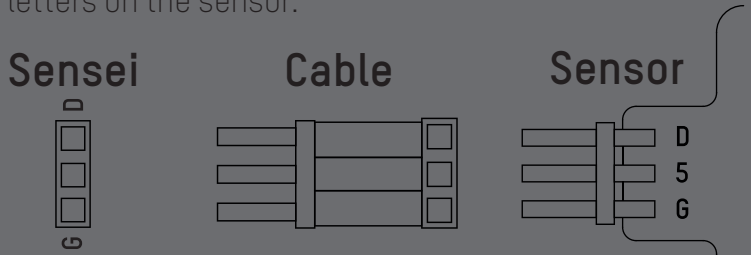
# SENSEI

Take care about the **correct orientation** of the sensor input. The letters on the module input must match letters on the sensor.



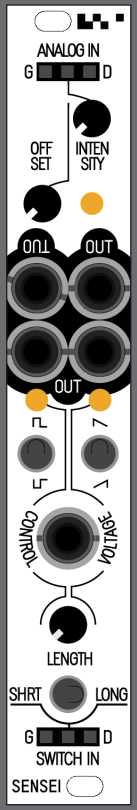

If you are using non-KOMA sensors, such as **Arduino type sensors**, make sure the pins match accordingly. **G = GND, 5 = 5V and D = Data** (i.e. the signal). The 5V pin is fused at 200mA.

Now go out and explore your environment and the different signals it has to offer! Let light, sound, touch and movement become part of your synthesis practice.

**Your modular just grew a few more senses, have fun discovering!**

Scan to see all available KOMA sensors, get inspiration and find the latest sensor manual.

Eurorack
Sensor
Interface




KOMA
ELEKTRONIK

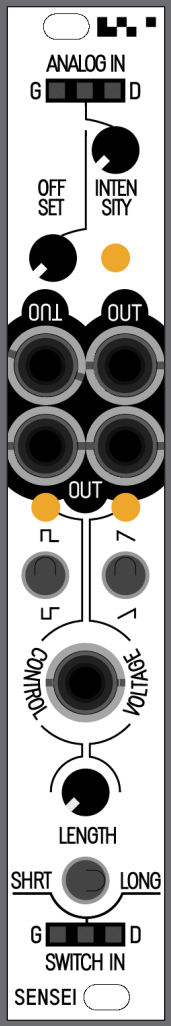
**Sensei** is a Eurorack **Sensor Interface** that enables you to interface your modular synth with your environment.

Sensors are attached via a 3-pin cable and are roughly distinguishable in two categories: **Analog** and **Switch** Sensors.

While not always sharply distinct, sensors will often either give continous signals (analog) or trigger events (switch).

The **upper half** of Sensei is perfectly suited to manipulate **analog sensor signals** by controlling offset and intensity of the sensor signal.

The **lower half** can turn any **sensor trigger** into a gate or ramp output. The length of this output is CV'able.




**Analog Input** Plug your sensor here.
**Intensity** Adjust the signal strength. This knob can boost the input signal by 2x.
**Offset** Shift the signal up or down (± 5V).
**Out** Output voltage range: ±10V.
**Out** Inverted output (flips the signal vertically).

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**Switch Input** Plug your sensor here.
**Length** Change the duration of the output. The CV from the jack input is added to the value of this knob. The output is re-triggerable.
**Polarity** Change the polarity of the output.
**Out** The two outputs range between 0V and +5V.

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Be adventurous and stay curious! Try any sensor with either half of the module.

You can also use the Button / Jack Sensor to send the signal from one half to the other or use any non-sensor signal as an input for Sensei. That way you can take advantage of its features as a re-triggerable envelope generator or manipulate CV-signals.