IBEX ELECTRONIC SPEED CONTROLLER
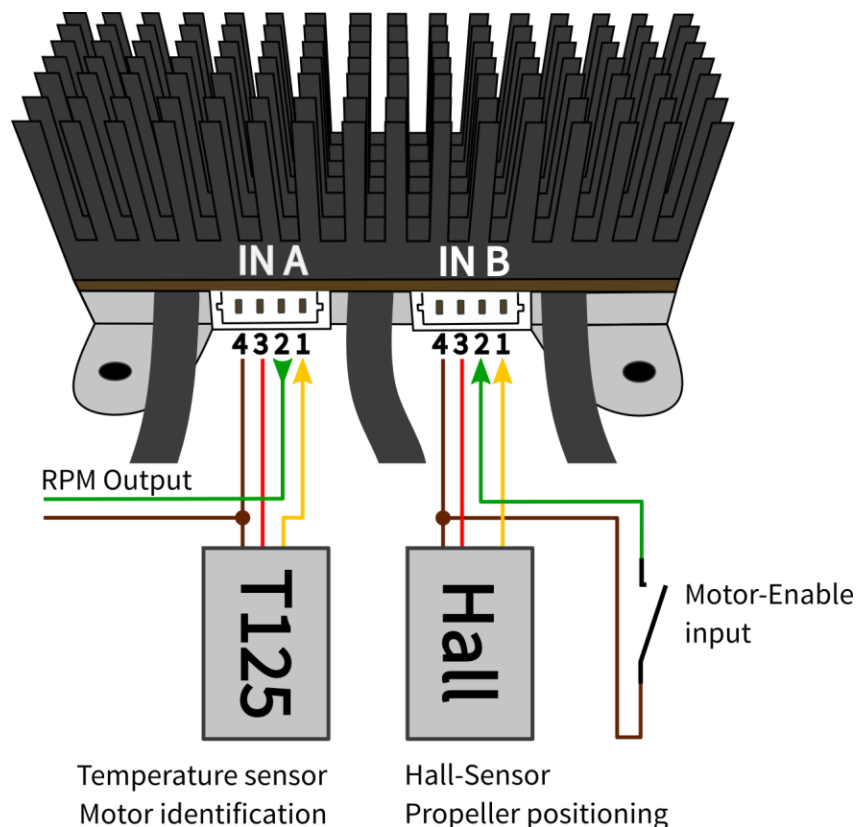
EXTENSION CONNECTOR PINOUT

The IBEX speed controller contains two extension connectors called "IN A" and "IN B". The **IN A** port contains digital peripherals, such as UART (and I2C for future use). The **IN B** port offers analogue and digital inputs. All the ports use a 3.3V logic and it is forbidden to apply any external voltage supply to them. If any external electronics is to be connected, it must be powered from the internal voltage source of the port with maximum current rating 15mA.

IN A:

1. UART – external temperature (motor identification) input. (Always active)
2. RPM output. (Always active)
3. +3.3V.
4. GND.

IN B:

1. Hall-Sensor input of propeller positioning function (configurable in Motor Settings).
2. Motor-Enable digital input (configurable in Motor Settings).
3. +3.3V.
4. GND.

Note: If you utilize the digital inputs/outputs (IN A/B) in conjunction with external devices that already share common ground, do not connect the pin No.4 (GND) and use only signal wires.