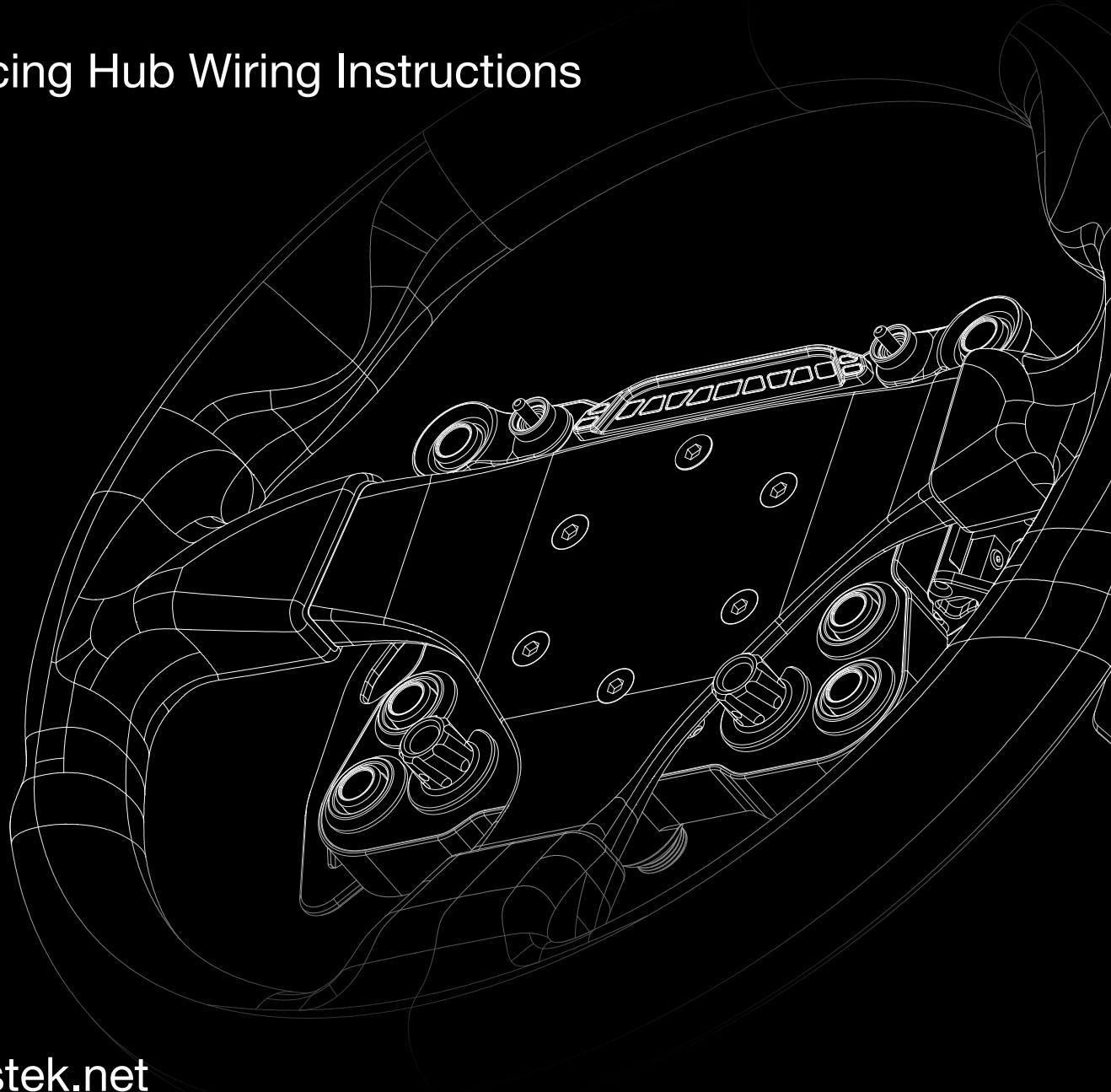


ZESTEK

CAN Racing Hub Wiring Instructions



www.zestek.net

Wiring

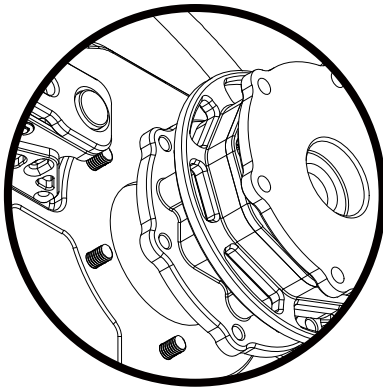
Precautions

This product is designed for racing vehicles. Incorrect wiring and settings may cause damage to the equipment.

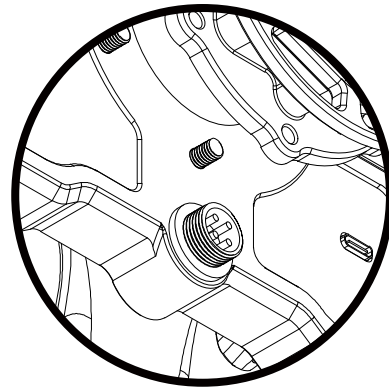
If you do not have experience in ECU tuning or race car wiring, it is recommended to entrust this task to a professional or operate under their guidance.

Wiring Location

The CAN Racing Hub is equipped with two wiring methods to facilitate your racing setup



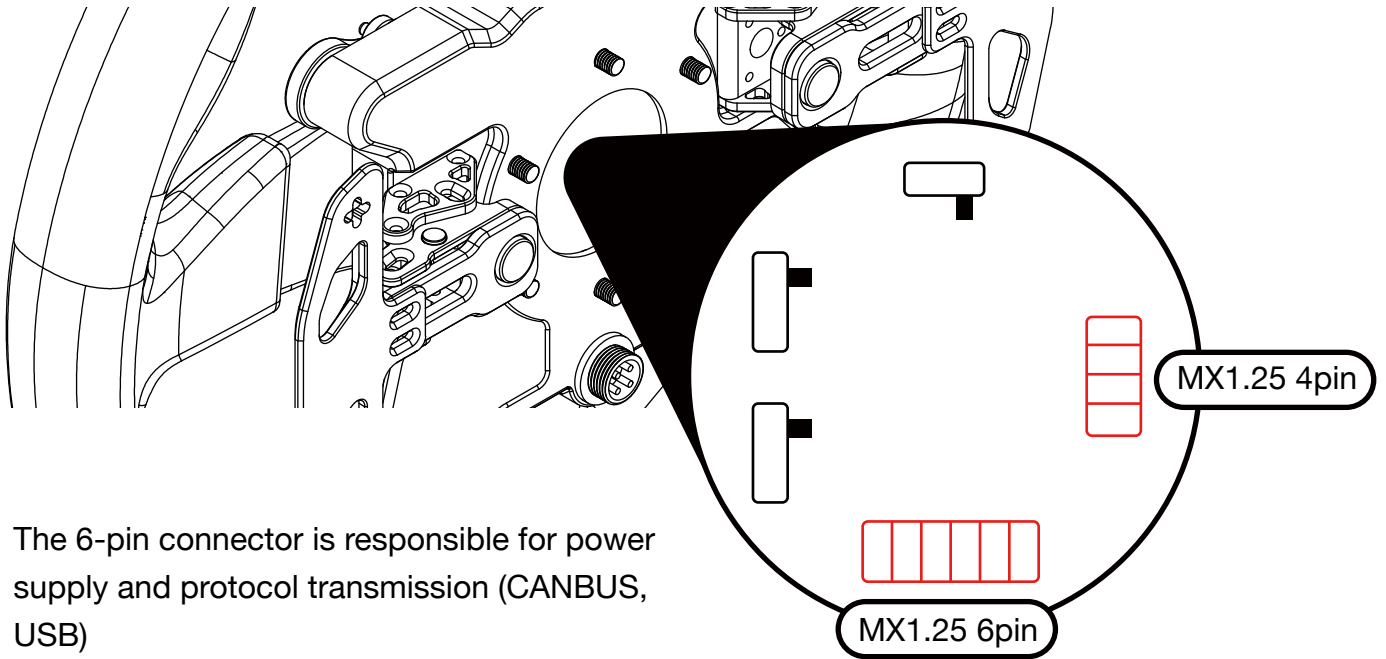
You can use any quick-release wiring connector that allows for cable pass-through (Zestek quick-release)



Alternatively, you can use the aviation connector located at the back of the product

Use Quick-release

At the rear of the product, there are two sets of MX1.25 connectors

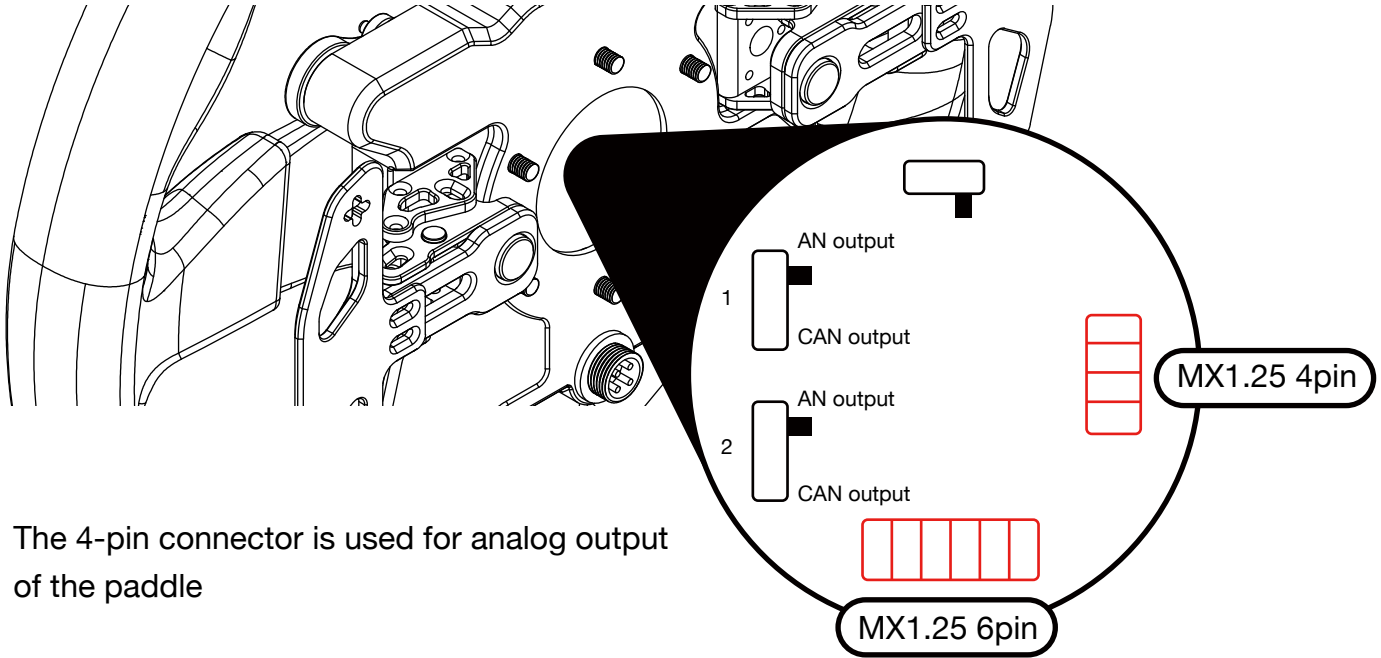


The 6-pin connector is responsible for power supply and protocol transmission (CANBUS, USB)

Typically, the connector wiring definitions are printed on the PCB surface

Including: Vin (VCC), GND, CanH, CanL, USB DM, and USB DP.

The sequence may vary for different versions of the CAN Hub, so please refer to the actual printed order.



The 4-pin connector is used for analog output of the paddle

The two switches on the left side represent the output modes for the two paddles

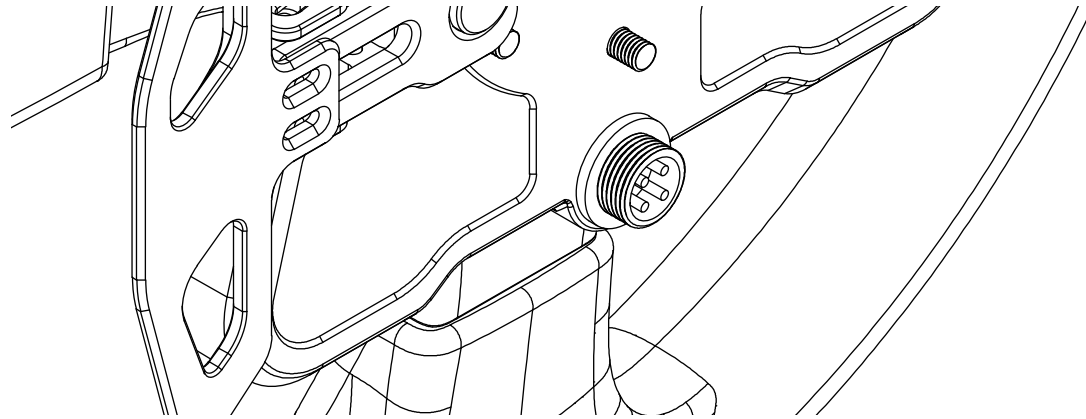
When switched to 'ANOUTPUT', the paddle signals will be connected to the A and B terminals of the MX1.25 4-pin connector.

When switched to 'CANOUTPUT', the paddle signals will be output through the CAN bus.



The paddle is only allowed to use either CAN or AN output, and does not support activation of both simultaneously

Use the Aviation Connector

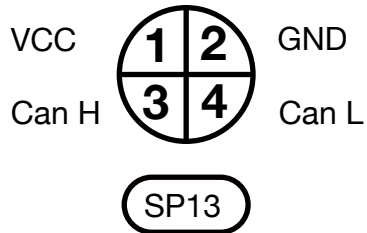


If you are using the aviation connector, please connect the MX1.25 6-pin connector on the aviation connector to the socket on the PCB

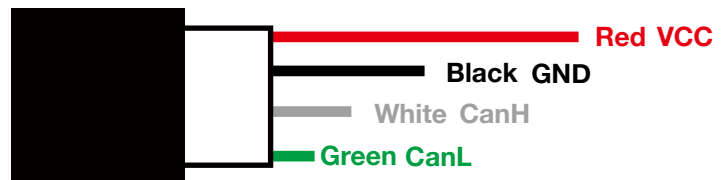
The model of the aviation connector is SP13.

The product comes standard with a 4-pin connector. If you need to use more pins, you may consider disassembling the product to replace it, but we strongly advise against doing so.

Each product includes a coiled spring cable. Below are the wiring sequence and definitions for the SP13 and the coiled spring cable.



Please be sure to carefully check the numbers printed on the connector to avoid incorrect wiring



The coiled spring cable needs a connector to be made compatible with your race car's CAN bus. Inside the cable, there are four wires of different colors

Electrical Parameters

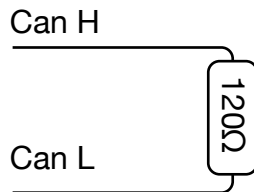
The Zestek CAN Racing Hub provides a dynamic voltage input range of 20V-3.3V. Please ensure that your voltage is stable, as unstable voltage spikes may cause damage to the device. Pay attention to your wiring sequence; incorrect wiring may lead to damage to the power supply module or CAN communication chip

Power Consumption

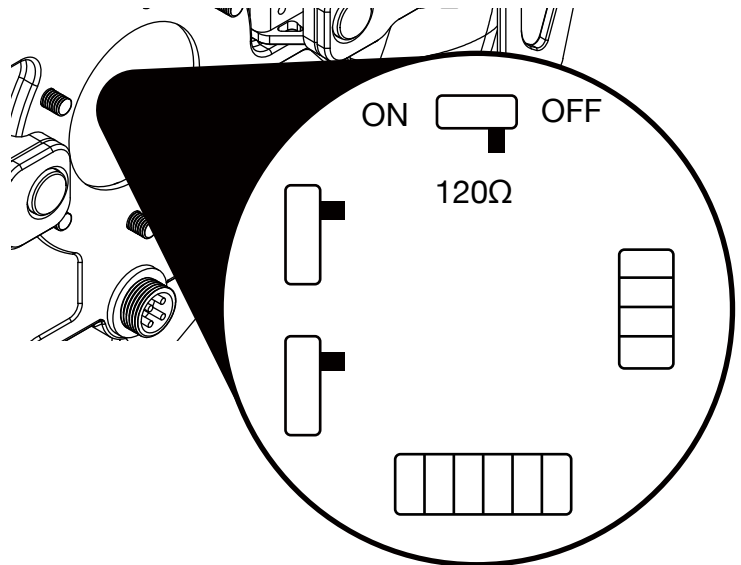
The full-load power of the device (with all lights white and at their brightest) is approximately 20W. If you are using a 12V power supply, the current is about 2A. If you equip a fuse at the power supply end or set current protection in the PDM, you can use a current limit of 5A

Termination Resistance

In a CAN network, it is usually necessary to equip a termination resistor at the end of the wiring to match the impedance and reduce echo interference.



We have designed a convenient 120-ohm resistor switch for this purpose. If your CAN network requires it, you can switch it to the ON position



CAN Message Settings

In the CANHub Studio software, click on 'Help Settings', and your browser will pop up the CAN message format for the corresponding firmware version (please use Google Chrome browser if possible).

To download the software, please visit www.zestek.net and select the latest software version in the download center.

For more product usage inquiries, you can contact Zestek's official email, or join the Zestek discussion community

