

eZee Controller Installation Guide



Controller Orientation and Mounting

There is a good amount of flexibility as to where an eZee controller may be mounted. However, it is important to orient the controller such that the wires are facing down as water can potentially enter via the wire entry/exit and cause water damage that is not covered under warranty.



Connector Box

The included eZee connector box is effective at keeping the motor phase connections and the hall sensor signal connections free of debris and help to prevent corrosion. It is recommended that the box be installed over the connectors as follows.



Wire Pinout and Fault Flash Codes

Controller Specifications Connector Pinouts

| Controller Current Limit | 25 A |
|--------------------------|-------------------------|
| Low Voltage Cutoff | 23V |
| Max Voltage Limit | 60V |
| Throttle Signal | Hall Effect 1.2-3.8V |
| Weight | ~0.6 Kg |

| 1 227 45 G | Cycle Analyst: 1=Vbatt 2=Gnd 3= -Shunt 4=+Shunt 5=Hall 6=Throt |
|----------------|--|
| 1-2-3-34-5 | Hall Sensor 1=Gnd 2=Yellow 3=Green 4=Blue 5=5V-Red |
| -1 -2 -3 | <u>Throttle:</u> 1=5V 2=Gnd 3=Signal,1-4V |
| 1 117 | <u>eBrake Input:</u> 1=5V 2=Gnd 4=Ebrake In |

Fault Flash Codes

| Flash Code | Description |
|------------|--|
| 4 | Throttle did not return to <1.0V |
| 5 | Throttle connection issue – check signals for shorts to 5V+ or Gnd |
| 6 | Low Voltage Cutoff (<30V) |
| 8 | Hall sensor issue check wires and voltage |
| 9 | Phase Wire Fault – check for shorts |
| 11 | Temperature sensor Fault |
| 12 | Controller fault – contact Grin Tech |
| 2 + 3 | Controller fault – contact Grin Tech |
| 3 + 4 | Motor Stalled – cycle power |
| 3 + 5 | Phase wire disconnect under use – must be applying throttle. Check for break in cable and connectors |

