

Stunt Stand Sensor

Technical description:

1 separate complete bridge weighing sensors are placed on the 4 corners of the product. After the successful establishment of the Bluetooth connection, the BLE will sample and upload the data of the weighing sensor, for the judgment and calculation of the user's center of gravity.

The differential signal of the 4 weighing sensor is converted into a single ended signal access AD BLE interface after amplification. This BLE can be used for the internal integration of the ADC 12bit module for sensor data sampling and calculation.

EEPROM design for storage of sensor calibration data in the production process. These data are used to convert the sample data of the sensor to the actual weight value.

In order to indicate the connection state of the BLE, the BLE is controlled by GPIO at the same time by the external LED, or by flashing.

Instructions

Turn on / off

The user can control the device's starting and shutdown state by using an external dial switch control device.

Bluetooth connection

When the device is turned on, the Bluetooth is automatically entered into the "discovery mode", which is called "Stand Sensor Stunt" .

Device Bluetooth can be found and connected with other devices via Bluetooth in the "discovery mode", while LED flashes the state.

After the establishment of the Bluetooth connection, the LED from the flashing state to the normal state, while the device will start to sample the 4 independent weighing sensor data real-time reported to the external device.

The time interval of sampling data is about 1 second.

Power supply

The device defaults to use the built-in lithium polymer battery to work, the normal working voltage is $\sim 3.4V$ $4.2V$.

Charge

The device can be charged by the external USB Micro interface in both the power and the off state.

By LED on the current state of charge to indicate the state of the red light is charging, blue light said it has been full of.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.