

Electrical Connector Details

Power Connector – J2

Mating Connector Housing: XHP–2

Mating Connector Pins: (see below)

- Pin 1 – GND
- Pin 2 – V+ (10V to 30V)

Status Connector – J3 (Optional)

Mating Connector Housing: XHP–3

Mating Connector Pins: (see below)

- Pin 1 – UART TX (115200 bps, 8N1, 3.3V Logic Output)
- Pin 2 – STATUS (3.3V Logic Output)
- Pin 3 – GND

LED Connector – J4

(Common Anode RGB LED)

Mating Connector Housing: XHP–4

Mating Connector Pins: (see below)

- Pin 1 – +12V
- Pin 2 – RED
- Pin 3 – GREEN
- Pin 4 – BLUE

All connector housings in this design

use the same style of crimp terminals.

An example part number for 22–26 AWG wire is below.

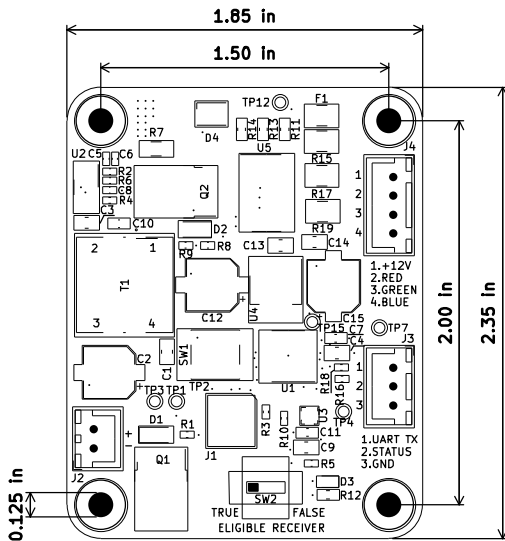
Mating crimp terminals: SXH–001T–P0.6N (example)

The recommended path is to use precrimped jumpers

for high-quality connections such as ASXH5XH22K305.

These cables can be purchased as complete

assemblies from places like Amazon. <<https://a.co/d/8tT1Qsl>>



Sheet:
File: tackle_sensor_hardware.kicad_pcb

Title: Tackle Sensor

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