

mrxFLOAT SID

SID Legend

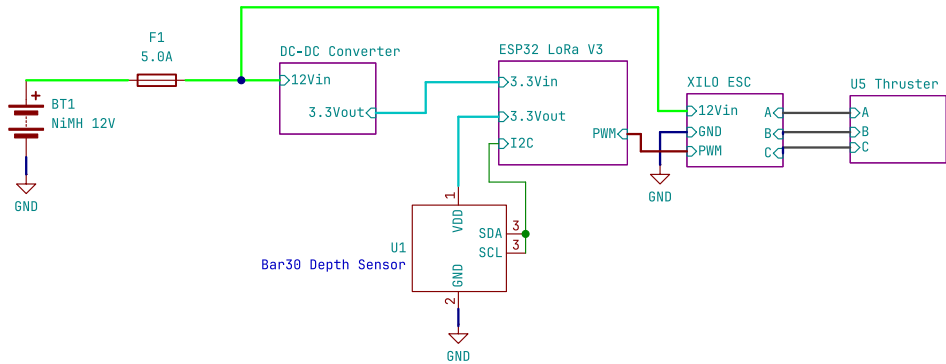
12V

3.3V

GND

I2C

PWM



ELEC-008R Requirements

Thruster

2A = 2A

DC-DC Parasitic Power

0.3A = 0.3A

ESP32 LoRa V3

0.5A = 0.5A

Total Amps

2.8A * 150% = 4.2A

Fused Selected:

5.0A AT0

Float Full Load Amps (FLA) in water = 4.2A
Fuse size selected based upon FLA = 5A AT0

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|--------------------------------------|------------------|---------|
| Float SID mrxFLOAT V10 | | |
| MUREX ROBOTICS | | |
| Sheet: / | | |
| File: float2025_SID.kicad_sch | | |
| Title: MUREX FLOAT SID | | |
| Size: A4 | Date: 2025-05-02 | Rev: V1 |
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