**Ping Sonar Specifications**

| **Parameter** | **Value** | |
| --- | --- | --- |
| **Electrical** | | |
| Maximum Supply Voltage | 5.5 volts | |
| Communication Protocol | Serial UART | |
| TTL Logic Voltage | 3.3 - 5 volts | |
| Typical Current Draw | 100 milliamps | |
| **Cable** | | |
| Cable Diameter | 4.5 mm | 0.18 in |
| Maximum Cable Length | TBD | TBD |
| Cable Length | 830 mm | 32.5 in |
| Cable Jacket | Black Polyurethane | |
| Conductor Insulation | Polypropylene | |
| Conductor Gauge | 24 AWG | |
| Wires | Black - Ground | |
|  | Red - Vin | |
|  | White - Device Tx | |
|  | Green - Device Rx | |
| **Acoustics** | | |
| Frequency | 115 kHz | |
| Beamwidth | 30 degrees | |
| Minimum Range | 0.5 m | 1.6 ft |
| Maximum Range | 30 m | 100 ft |
| Range Resolution | 0.5% of range | |
| Range Resolution at 30m | 15 cm | 6 in |
| Range Resolution at 2m | 1 cm | 0.25 in |
| **Physical** | | |
| Pressure Rating | 300 m | 984 ft |
| Weight in Air (w/ cable) | 135 g | 4.76 oz |
| Weight in Air (w/o cable) | 100 g | 3.53 oz |
| Weight in Water (w/o cable) | 48 g | 1.69 oz |
| Mounting Bracket Screw Size | M5x0.4 mm | |