

Quick Start Guide

Miranda™

Servotorq™ Integrated Servo Motor
Part No. OVU20012 and Variants



Thank you for purchasing Overview's Miranda Integrated Servo Motor.

To quickly get up and running with your Miranda motor, please refer to the Technical Manual, I²C Protocol Guide and Application Notes located at:

<http://www.overview.co.uk/technical-support/>

Please observe the following precautions when handling and operating the Miranda motor:



- The Miranda motor uses semiconductors which can be damaged by electrostatic discharge (ESD). The motor must be handled and stored in an ESD safe environment.
- The Miranda motor's nominal supply is 24V DC, using up to 1A DC. Do **NOT** hot-plug the power supply.

Reference Information:

The Miranda I²C control interface uses 3.3V and requires pull-ups to this voltage. Do **NOT** use higher voltages. Please see the Technical Manual for further details and a reference interface circuit.



Beware! When the drive is powered, it will rotate. This is part of the initialisation process and is outlined in the Technical Manual. During this process the drive will draw current up to the maximum rated value.

Warning: If Battery powered the drive will require Surge, In-Rush Current, Reverse Polarity and Overvoltage Protection.

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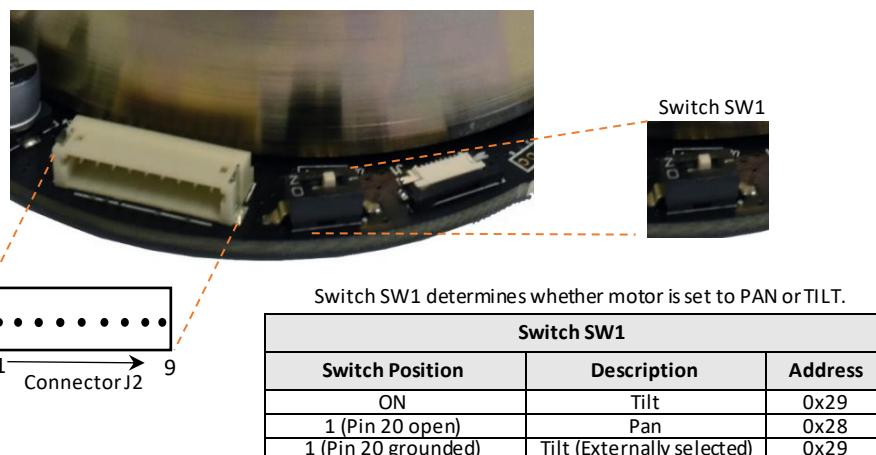
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Miranda motor pinout reference (please see the Technical Manual for further details):

- Connector type: – JST S9B-ZR-SM4A-TF9-way.
- Mating housing part: ZHR-9 (JST)
- Pre-crimped leads: SH3-SH3-28300

J2 Connectors	
Pin	Signal
1	24V Power (1A Max Total)
2	24V Power (1A Max Total)
3	Power Ground (0V)
4	Power Ground (0V)
5	Address select pin: 0x29 (Tilt) = 0V 0x28 (Pan) = Open (not connected)
6	Signal Ground (0V)
7	SCL (I2C Clock Signal 3V3)
8	Signal Ground (0V)
9	SDA (I2C Data Signal 3V3)



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