

## Quick Start Guide

### Titan™

Servotorq™ Intelligent Servo Motor  
Part No. OVU00212 – OVU00213 and Variants



Thank you for purchasing Overview's Titan Intelligent Servo Motor.

To quickly get up and running with your Titan motor, please refer to the Technical Manual, I<sup>2</sup>C Protocol Guide and Application Notes located at:

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

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



- The Titan motor uses semiconductors which can be damaged by electrostatic discharge (ESD). The motor must be handled and stored in an ESD safe environment.
- The Titan motor's nominal supply is 12V DC, using up to 600mA DC. Do **NOT** hot-plug the power supply.

#### Reference Information:

The Titan I<sup>2</sup>C 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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Titan motor pinout reference (please see the Technical Manual for further details):

While there are 3 connectors on the Titan motor that allow for power and I<sup>2</sup>C connections, J5 is the most convenient to use for initial testing and is detailed here.

- Connector type: – JST S8B-SM4A-TF 8-way (JST SH series).
- Mating housing part: ZHR-8 (JST)
- Pre-crimped leads: SH3-SH3-28300

J5 Connectors	
Pin	Signal
1	Vin 12V DC
2	I2C SDA
3	I2C SCL
4	PASS THROUGH 3
5	PASS THROUGH 4
6	PASS THROUGH 2
7	PASS THROUGH 1
8	GND



Jumper JP1 determines whether motor is set to PAN or TILT.

Jumper JP1		
Jumper Position	Description	Address
Right (Pin 2 & 3)	Tilt	0x29
Left (Pin 1 & 2)	Pan	0x28

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OVZ20002 Rev 4

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