Quick Start Guide

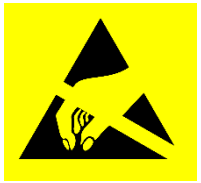
Miranda™

Servotorq™ Integrated Servo Motor
Part No. OVU20012

Thank you for purchasing Overview's Miranda Servotorq Intelligent Servo Motor

To quickly get up and running with your Miranda motor, please refer to the Technical Manual, the 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 supply voltage is 24V DC, using up to 1A. Do **not** hot-plug the power supply.
- I²C interface voltage is 3.3V and requires pull-ups to this voltage. It is **not** tolerant of higher voltages, e.g. 5V.

Reference Information:

When initially powered up, the Miranda motor will perform an initialisation routine as detailed in the Technical Manual. During this routine, the unit will rotate and temporarily draw the max rated current.

Overview Limited
Overview House Kingswey Business Park Forsyth Road Woking GU21 5SA United Kingdom
www.overview.co.uk

Quick Start Guide

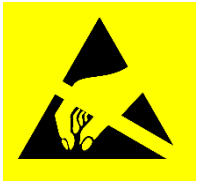
Miranda™

Servotorq™ Integrated Servo Motor
Part No. OVU20012

Thank you for purchasing Overview's Miranda Servotorq Intelligent Servo Motor

To quickly get up and running with your Miranda motor, please refer to the Technical Manual, the 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 supply voltage is 24V DC, using up to 1A. Do **not** hot-plug the power supply.
- I²C interface voltage is 3.3V and requires pull-ups to this voltage. It is **not** tolerant of higher voltages, e.g. 5V.

Reference Information:

When initially powered up, the Miranda motor will perform an initialisation routine as detailed in the Technical Manual. During this routine, the unit will rotate and temporarily draw the max rated current.

Overview Limited
Overview House Kingswey Business Park Forsyth Road Woking GU21 5SA United Kingdom
www.overview.co.uk
© Overview Ltd 2021
OVZ20021 Rev 3

Quick Start Guide

Overview Agile Positioning Systems

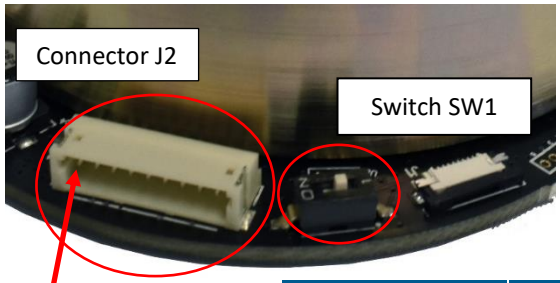
Miranda™

Servotorq™ Integrated Servo Motor
Part No. OVU20012

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

- Connector type: – JST S9B-ZR-SM4A-TF 9-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)



Switch Position	Description	Address
ON	Tilt	0x29
OFF (pin 5 open)	Pan	0x28
OFF (pin 5 grounded)	Tilt (externally selected)	0x29

Overview Limited
Overview House Kingswey Business Park Forsyth Road Woking GU21 5SA United Kingdom
www.overview.co.uk

Quick Start Guide

Overview Agile Positioning Systems

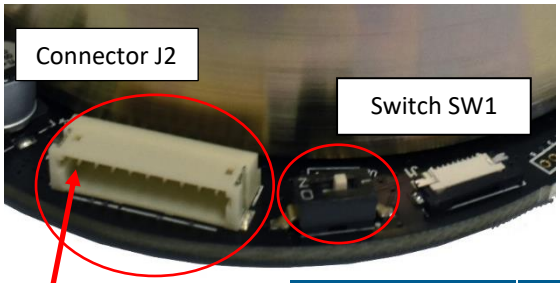
Miranda™

Servotorq™ Integrated Servo Motor
Part No. OVU20012

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

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

J2 Connector	
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)



Switch Position	Description	Address
ON	Tilt	0x29
OFF (pin 5 open)	Pan	0x28
OFF (pin 5 grounded)	Tilt (externally selected)	0x29

Overview Limited
Overview House Kingswey Business Park Forsyth Road Woking GU21 5SA United Kingdom
www.overview.co.uk
© Overview Ltd 2021
OVZ20021 Rev 3