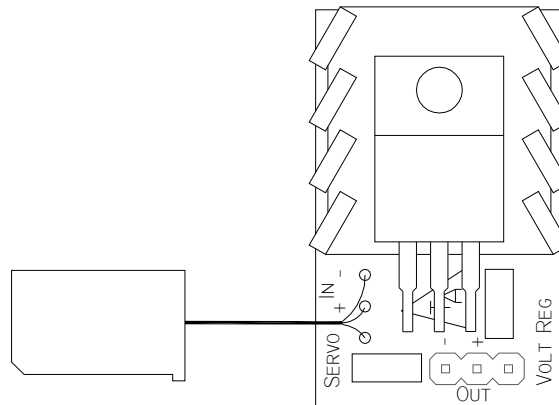




Input: Servo Cable
Output: Pin Headers



User's Guide

Introduction

The Thomson Automation Servo Voltage Regulator is designed for use with the Receiver Expander. It is connected between the servo channel output from the Receiver Expander and each servo. It is used with battery voltages above 6 Volts. Even though it is specially designed for use with the Receiver Expander, it can be used with other systems to stabilize the supply voltage to your servos as long as the signal level does not exceed the supply voltage.

Two models are available:

1. Regulated 5 volt power
2. Regulated 6 volt power

The Receiver Expander is intended for hobby use only. Thomson Automation is not responsible for any damage or injury that occurs through the use of this product.

Connecting the module

Simply plug the cable into the signal / power source and the servo into the regulator.

For more information, see the 1083 Receiver Expander User's Guide

Heat Dissipation

Be sure to provide adequate cooling air flow around the module. Do not wrap the module in foam rubber as is normal for some module installations. Test you installation in operation for overheating. You should always be able to touch the heat sink while the module is in operation.

Check for the latest version of this manual at: <http://www.thomson-automation.com/RC/WebModules/1083/1083en.aspx>

Preliminary Information

Common Servo Connector Configurations

Wire Function	Futaba	Graupner, JR	Hitec	Airtronics
Signal	White	Orange	Yellow	Orange
+ Power	Red	Red	Red	Red
- Power	Black	Brown	Black	Black

Specifications

Name	Servo Voltage Regulator
Part nr.	1084-5
Hardware rev	1.0
Battery Supply Voltage	7.3V – 34V
Maximum peak current	2.2A
Maximum continuous current	Depends on cooling. Test your application.
Servo Channels	1
Control Signal	Direct Connected In-Out
Cable Length	30 cm
Weight	20 gm
Size	32 mm X 20mm X 12mm

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Preliminary Information