RCE550A - Digital Servo Slower

Mounting

The RCE550A digital servo slower is small and light enough to be taped to a non-conductive surface or lashed with a tie wrap. A 3/4" piece of clear heat shrink tubing (included) makes an excellent insulative cover.

Dimensions

Width: 0.6" (15mm)
Length: 1.6" (41mm)

Hook-up And Operation

The RCE550A comes prewired with Futaba style connectors. All you have to do is plug it in and select the time delay you want!

Operation is simple: when you first power-on the RCE550A, it immediately passes the input signal to the output. From then on, it slows the input signal from the R/C receiver to the output device by whatever full-scale time range you set. In the event of an invalid or missing signal, the RCE550A doesn't generate any signal at all allowing the device being slowed to engage its own failsafe mechanism. When a valid signal returns it slowly tracks to that new setting.

Other than the exception for the *first* instance at power-on, the RCE550A will slow all transitions it receives from the R/C receiver. For instance, if you have the Tx stick at +100%, turn off the Tx, move the stick to -100% and then turn the Tx back on, the RCE550A will smooth the transition from +100% down to -100%.

This interface is very useful when using the IFI Robotics "spin controller" products. Tying the RCE550A to a Tx channel with an on/off toggle switch yields a useful human interface to controlling a high power motor while limiting the amount of current consumed at low RPMs. In addition, the RCE550A obviates the need for a PWM buffer to the IFI Robotics products. This interface also works well with the Astroflight 207D and 212D products.

Operation

The onboard LED aids in setup and displays the status of your radio link:

○ Off	The board is unpowered	⊛ Slow blink	Valid signal; slowing active
● On solid	Transmitter fault: no vaild signal detected (no output signal emitted)		

Two DIP switches set the full-scale time delay between Tx signal extremes, ie -100% to +100%. You may alter the switch configuration "on the fly" to test them out and see what works best in your application.

3.5 sec | 4.5 sec | 7.5 sec | 13 sec

Specifications

Supply voltage:	3.8 - 5.5 vdc (four RX Nicads MAX!)
Supply current:	7ma
Granularity:	200 steps full scale

 rev1.0 E-mail: support@teamdelta.com