

Applications

R.O.V.s, U.A.V.s., R.P.V.s.
 Aerospace
 Special Effects
 Motion Control
 Robotics / A.I.
 Animatronics

Features

Plugs Directly into Futaba™
 Type Radio Receivers.
 Stable 12 bit Output
 Wide power supply range
 Stores last valid pulse
 Designed for Aerospace Apps.

This precision device converts standard R/C servo style PPC, PCM signals to an analog DC output with 12 bit resolution. It incorporates a charge pump so the output is stable with input changes such as: low battery supply voltage, pulse amplitude, frequency and temperature. Programable options include: output scaling within 0 to 5 volts, positive or negative going, valid pulse width cut off points, and a second order filter for different time constants (T/C) output filter rates. All programs are factory set.

Specifications

INPUTS:

Supply Voltage: 3.25 to 6.25 Volts
 Current: 10ma. typ.
 R/C Input: Standard servo type PCM. Positive going.
 Input Pulse Width Range: 1.00 to 2.00ms
 *PCM, Pulse width range: 0.5 to 2.5 ms (Standard RC Radio)
 Pulse frequency range valid from 25-125 Hz. (50 Hz. Normal)
 Input Logic Gate: 74HCT Series
 Input Resolution: 0.4us
 *Connector: Futaba Male, 12"

OUTPUTS:

*Voltage Range: Programmable within 0.0V min. to 5.0v ± .5%
 Output Device: Op Amp (Op295 @ 15ma.)
 Power-Up Output, with no input pulses defaults to its lowest DC value.
 Resolution: 12 bits ±1 LSB
 Output Drift: ±.5% full scale and per 10°C
 +5.00 Volt Ref. @ 10ma. User assignable.
 * Time Constance (T/C) output filter.
 *Connector: Futaba Female, 3"

Size/Weight: 2.5" X .5" X .35" / .7oz.
 Temp. Range: -15° to +70°C

Standard Options are:

X=Output Ranges:

- A) 0.05 to 4.95 Volts
- B) 1.25 to 3.75 Volts
- C) 0.75 to 4.25 Volts

T=T/C Filter Rate Codes 1-9

- 3= 1msec. (Std.)
- 6= (Smooth)
- 9= 1 sec.

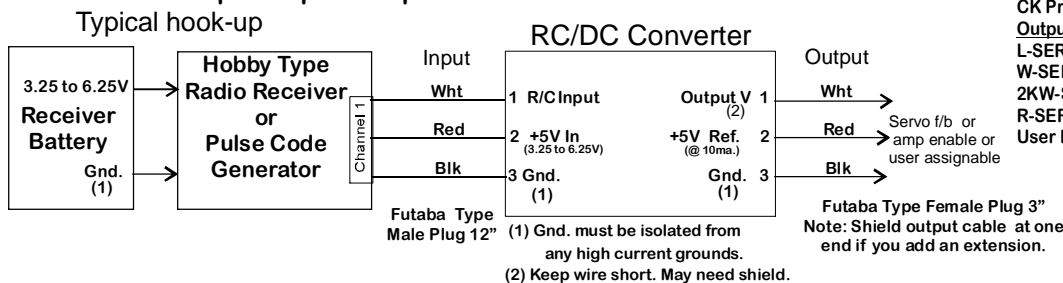
Order Info:

P/N RC/DC- X Y

X= Output Voltage Range A or B

Y= T/C (Time Constance) 2 - 9

* Customer can request special options to meet there needs.



CK Products Output Voltages	Retract		Extend	
	Min.	Max.	Code	
L-SERIES Servos	0.05V	4.95V	A	
W-SERIES Servos	1.25V	3.75V	B	
2KW-Series	0.75V	4.25V	C	
R-SERIES Servos	0.05V(ccw)	4.95V(cw)	A	
User Requested Output				

Note: For Single source common ground systems. Disconnect the RC/DC Input ground, using only its output ground.

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