

Applications

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

Features

Plugs Directly into Fatuba™
type radio receivers.
Wide power supply range
Stores last valid pulse
Small Size

This precision device converts standard R/C servo style PPC signals to an analog DC output with 12 bit resolution. The output is stable with input changes such as: supply voltage, pulse amplitude, frequency and temperature. Programmable 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 5 Volts Normal
Current: 10ma. typ.
Ground: Connect to signal ground only
R/C Input: Standard servo type PCM. Positive going.
Pulse width valid range: 1.0 to 2.0 ms (1.5ms neutral)(STD)
Pulse frequency range valid from 25-125 Hz. (50 Hz. Normal)
Input Logic Gate: 74HCT Series
Input Resolution: 0.4us

OUTPUTS:

+5 Volt Ref.: 5.00 Volts ±.05V @ 10ma. User assignable.
Ground: Connect to signal ground only.
DC Analog Output: Programmable within 0.050 to 4.950 Volts @ 15ma.
Output Device: Op Amp (Op295)
Output Default: Pwr. Up with no pulse = lower DC limit. i.e. 1.25VDC
Resolution: 1.25mv @ 12 bits
Output Drift: ±.5% full scale and per 10°C

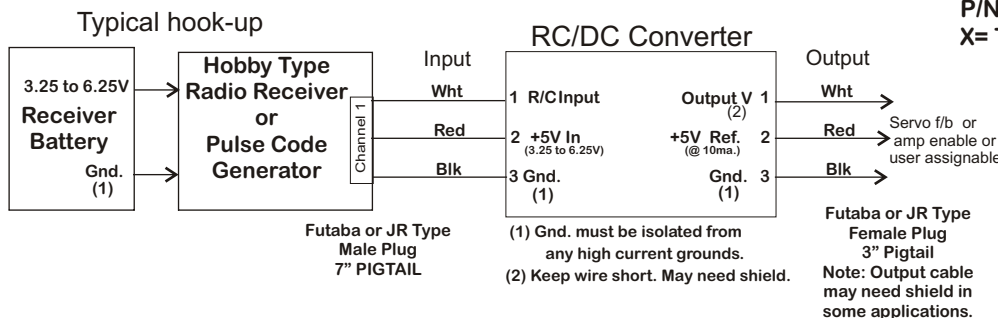
SIZE: 2.5"X.5"X.35" .7oz.
Temp. Range:-15° to +70°C

Program Options:
T/C Filter Rate Codes 3-9
3= 1msec. Typ.
6= (Standard)
9= 1 sec. Typ.

Output Range:
A) 0.05 to 4.95 Volts (STD)
B) 1.25 to 3.75 Volts
C) 0.75 to 4.25 Volts
User Defined: Written Out
Valid Pulse Width Range:
1.00 to 2.00ms (STD)
or User specified

Order Info: Price
P/N RC/DC12/X-Y 12 Bit Model \$190.00 ea.
X= T/C code; Y= Output Range

Output Codes :	Retract		Y=
	Min.	Max.	
W-SERIES Servos	1.25V	3.75V	B
L-SERIES Servos	0.05V	4.95V	A
2KW-Series	0.75V	4.25V	C
R-SERIES Servos	0.05V(ccw)	4.95V(cw)	A
User Defined	Written Out		



Cycle life of actuator could vary depending on operating conditions. Tolerances are + 5%.
Not intended for medical use. Specification may change without notice. Rated load @ 50% duty cycle.