

Id	Designator	Package	Quantity	Designation
1	IC1	SOIC8wide	1	ATTINY25-Soic8 Wide
2	C1,C2,C5	0603	3	10n/16V
3	C3	0603	1	100n
4	C4	0603	1	1μ
5	ENC1	11mm Vertical	1	11mm vertical rotary encoder (see the list)
6	R1,R2,R6	0603	3	1k
7	R3,R4,R5	0603	3	10k
8	P1	1x6_254	1	Pin header 1x6 RM2.54
9	P2	1x3_254	1	Pin header 1x3 RM2.54
10	P3	1x2_254	1	Pin header 1x2 RM2.54
11	PCB		1	<a href="https://www.oshpark.com/shared_projects/oFZJGAvs">https://www.oshpark.com/shared_projects/oFZJGAvs</a>

Compatible rotary encoder types:

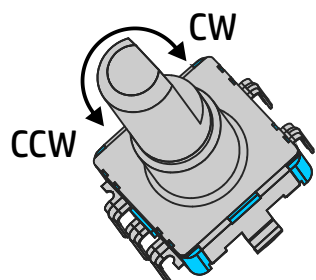
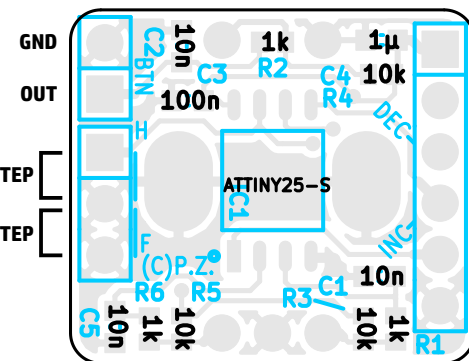
- ALPS EC11 series, vertical mount
- BOURNS PEC11L-4xxx F Sxxxx ie. PEC11L-4120FS0020
- BOURNS PEC11L-4xxx F Nxxxx
- various 11mm encoder clones

Due to differences in the encoder's internal construction (phase relation between A & B outputs) CCW and CW button outputs might be swapped.

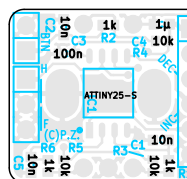
Encoder button output (active low)

Encoder type jumper

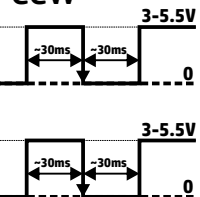
PCB bottom layer view



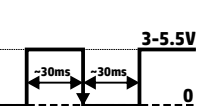
Filter/debounce step count buffer



CCW



CW



USB joystick/controller

POWER 3-5VDC

regular button inputs

GND

## Encoder to button converter

FLIGHT SIM COCKPIT SYSTEM

(c) Piotr Zapart

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Sheet: /

File: Encoder2Btn.sch

Title: Enc2Btn converter

Size: A4 Date: 2016-09-01

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