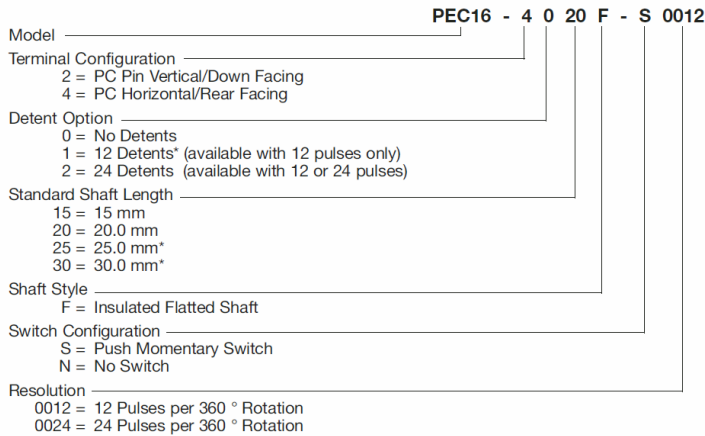


# Replacing the Rotary Encoder on a Proteus 2000

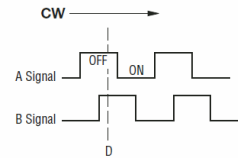
Switch, Encoder 16MM 24 Detents Vertical mount.

Bourns PEC164215FN0024 encoder for replacement.

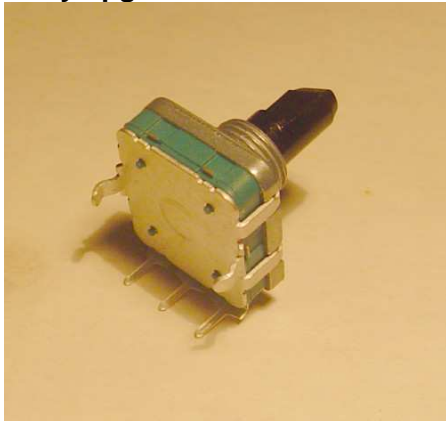
*Bourns PEC164215FN0024 encoder*



Quadrature Output Table



## EBay upgrade



I used a **BI TECHNOLOGIES/TT ELECTRONICS, EN16-H20AF15, INCREMENTAL ENCODER** purchased on **EBay UK. £4.75**

**INCREMENTAL ENCODER**

Pin vertical/down facing

Not pc horizontal rear facing

- Encoder Resolution:24CPR
- Encoder Type: Incremental
- Leaded Process Compatible:Yes
- No. of Detents:0
- Series:EN16

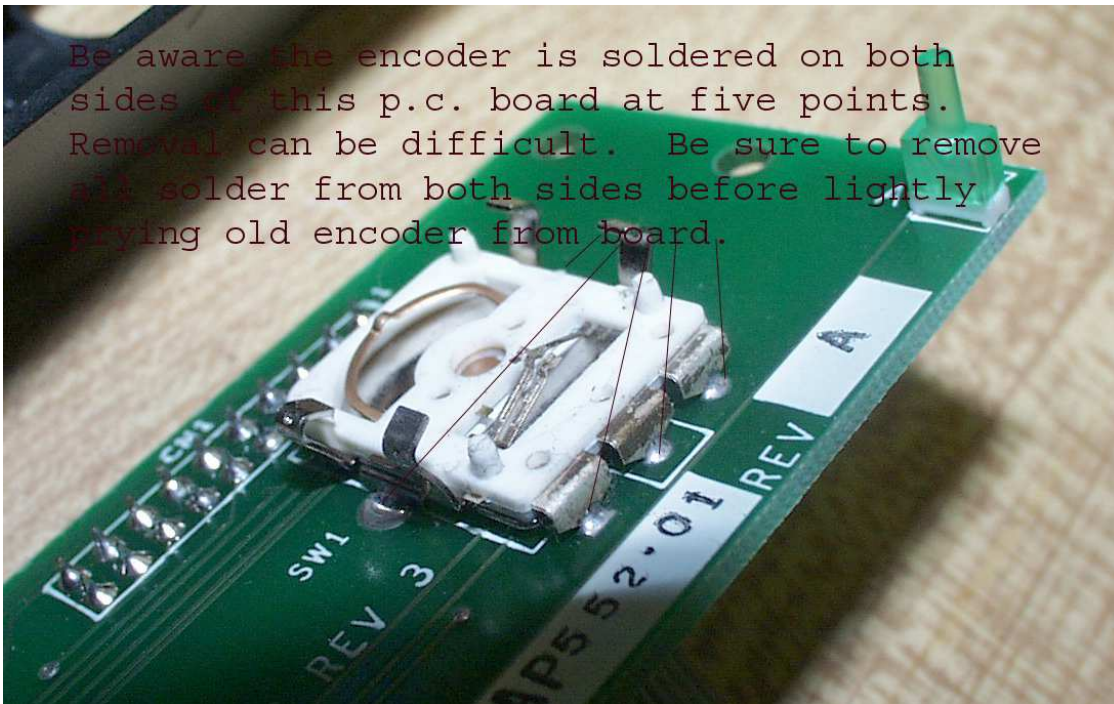


Locate the encoder pcb remove screws mark the ribbon cable with felt tip at pin 1.

Remove the pcb.

Use a solder sucker to remove the old encoder the following picture shows the encoder broken apart. The middle spring is the detent.

Be aware the encoder is soldered on both sides of this p.c. board at five points. Removal can be difficult. Be sure to remove all solder from both sides before lightly prying old encoder from board.



The new encoder ready for soldering

After replacing the encoder refit the PCB Making sure all the cables are correctly Located.

