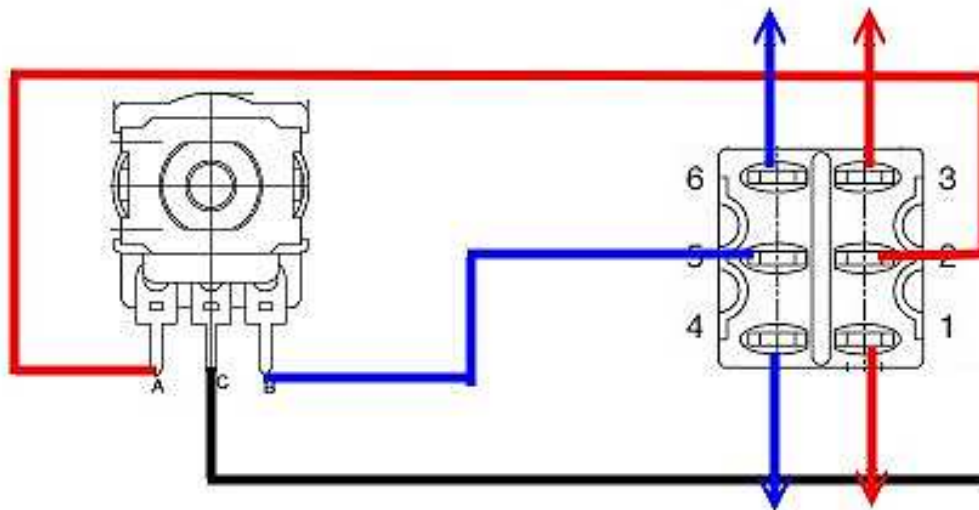




DRIVING Two Sources From One Encoder

Here's something that may be of interest. Alex Jay was looking for a solution for his radio tuning avoiding the need to buy a dual encoder.

This is a simple solution that works with a BU0836X card. I set it up on my workbench just to make sure before putting my foot in my mouth and putting 'finger to keys'.



Ok, what Alex wanted to do was be able to tune his radios using a single encoder. So I devised this for him. By wiring the encoder thru a DPDT switch it's possible to route the encoder to two separate inputs on your interface.

Outputs A & C on the encoder are wired to the common terminal on each side of the switch (2 & 5). The output pairs from the switch (6 & 3) (1 & 4) are then attached to your interface card.

Switch in Position 1 the encoder is instructing one set of inputs. Switch in position 2, it is instructing another set.

So for example on the radio, Khz can be changed in one side and Mhz in the other.

KNOWN LIMITATIONS

1. Mechanical switches may 'bounce'. That is when they change position, they may make contact with the output connections in the switch and 'bounce'. Giving you two or more make and break connections very quickly before settling in that position. Adding a de-bounce circuit cures this.
2. Your interface card may read the absence of a code from the encoder and advance (or retard) one déteinte when the source from the encoder is switched.

Not a perfect solution by any means. But it did the job here. Just experiment, costs you nothing and it could just solve your problem :o))