

IJ-8

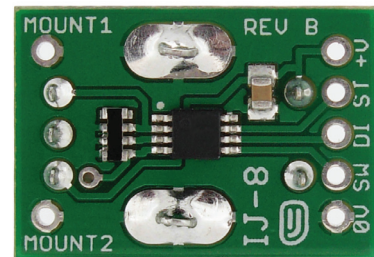
Rotary encoder decoder



The IJ-8 module provides an extremely easy means of interfacing with a mechanical rotary encoder. The on-board microcontroller handles all decoding/debouncing of both the quadrature and switch signals from the encoder and provides simple logic-level step, direction and switch outputs.

It uses a high-quality Bourns encoder (Bourns part number PEC11-4215F-S0024) to ensure reliable operation and long life. The shaft has 24 detents per revolution.

Operation is from a 5V supply. The connections are all on a 0.1" pitch so standard pin headers can be used. Two additional holes (MOUNT1/2) are provided for extra rigidity when mounting the module directly on a PCB - these are connected to 0V.

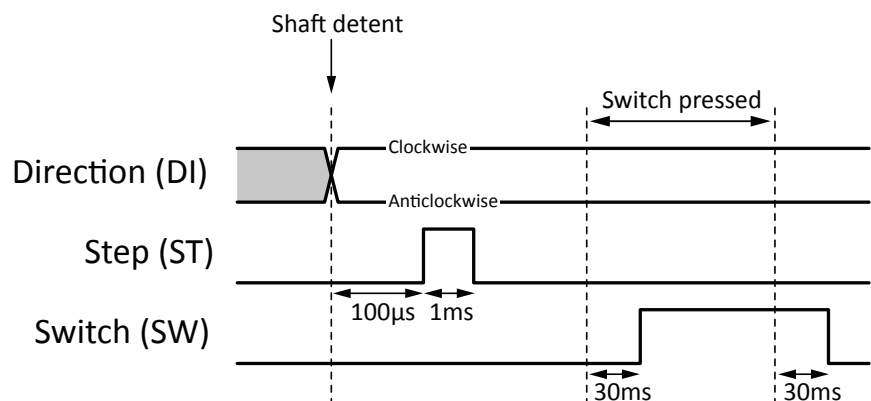


Timing waveforms

Each time the shaft passes a detent position, the direction output (DI) is updated and a 1ms long pulse is produced on the step output (ST).

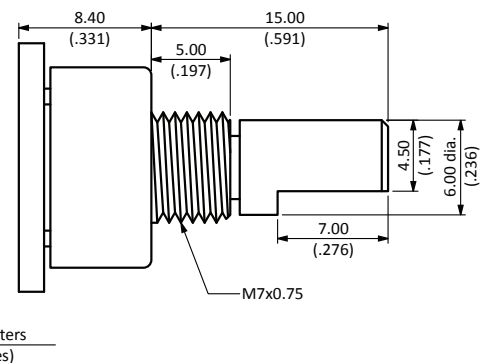
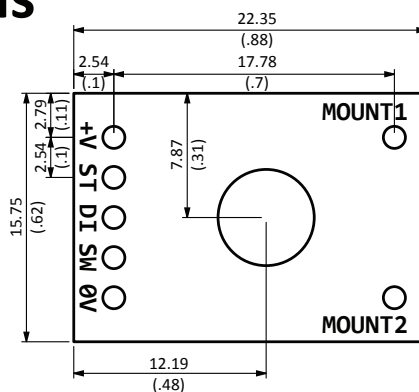
The switch output (SW) is debounced with a delay time of 30ms.

All outputs are 5V logic levels.



Pinout/dimensions

- +V** +5V supply
- ST** Step pulse output
- DI** Direction output (high=CW low=ACW)
- SW** Switch output
- 0V** 0V supply



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