Assignment 8 – Rotary encoder

1. Write a driver to read the rotary encoder. The driver could give an event whenever a clockwise or a counterclockwise step is detected and when the embedded button is pushed.
2. Let the rotary switch act as an angle monitor. Show the angle of the slot in the axis at the LCD display. Zero degrees is parallel to the edge of the PCB.
3. The program must be structured as loosely coupled tasks, running under FreeRTOS.

The encoder (digiswitch) datasheet can be found on itslearning under Resources – datasheets – EMP board.

Good luck,

Oskar