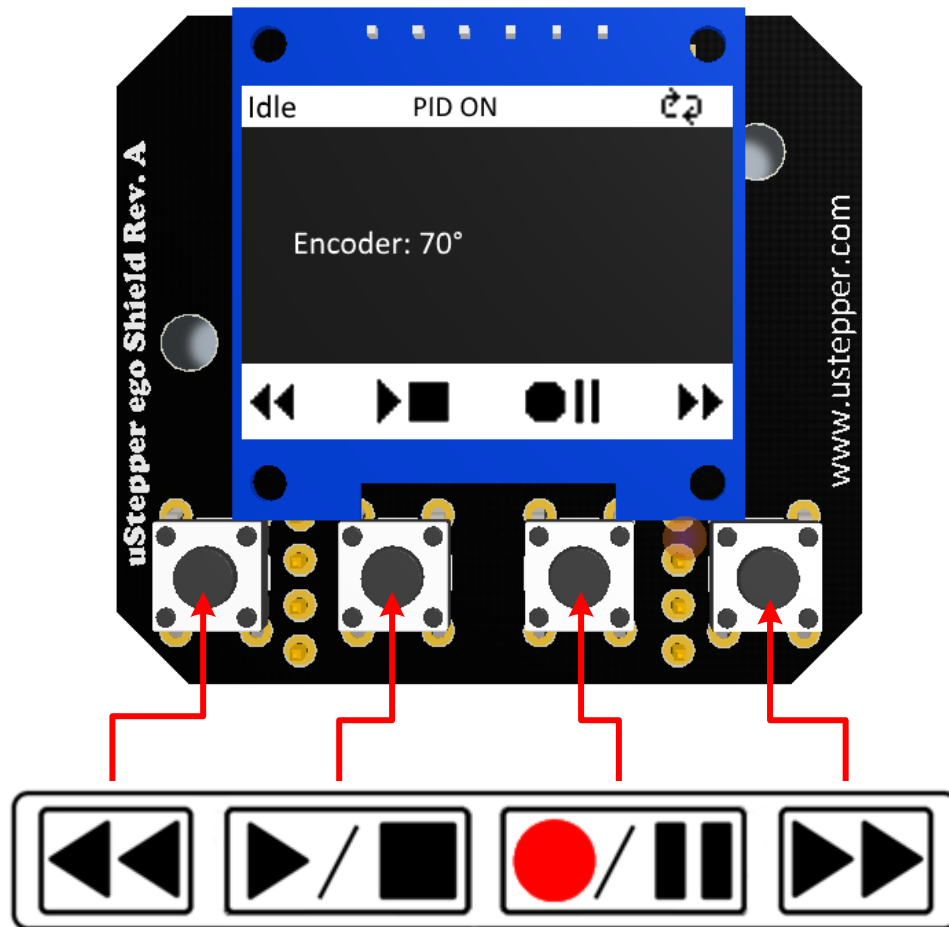# egoShield with 4 push-buttons and OLED display

The control in the library has the following functionality:

- *Idle state*
    - Press **FWD** or **REV** to manually move 10 deg in either direction
    - Press and hold **FWD** or **REV** to move continuous until releasing
    - Press and hold **RECORD** to enter recording state
    - Press **PLAY** to enter *Play state*, and play recorded sequence
    - Press and hold **STOP** to invert PID mode (either PID ON or PID OFF)
- *Record state*
    - Press **RECORD** to record position
    - Press and hold **STOP** to go into *Idle state* again
    - If PID ON:
        - Press **FWD** or **REV** to manually move 10 deg in either direction
        - Press and hold **FWD** or **REV** to move continuous until releasing
    - If PID OFF:
        - Also possible to move by hand
- *Play state*
    - Press **PAUSE** to enter *Pause state* at next position
    - Press and hold **STOP** to stop play and go into *Idle state*
    - Press and hold **FWD** to play sequence in loop
    - Press and hold **REV** to stop looping
- *Pause state*
    - Press **PLAY** to continue playing by entering *Play state*
    - Press and hold **STOP** to go into *Idle state*