

RepRap 20x4 LCD Encoder Wheel support

[encoder_spin.txt](#)

The Basic code to support the RepRap 20x4 LCD Encoder Wheels is provided here:

http://fruitoftheshed.com/GetFile.aspx?File=%2fMMBasic%2fEncoder_Spin.txt&AsStreamAttachment=1&Provider=ScrewTurn.Wiki.FilesStorageProvider&NoHit=1

Or... You can just cut and paste from this post:

Sub Setup_LCD

```
SetPin GP7, DOUT      'Beeper
Pin(GP7) = 1          'Beeper On
Bitbang LCD INIT GP11,GP12,GP14,GP15,  GP22,GP26
Bitbang LCD Clear
Pin(GP7) = 0          'Beeper Off
```

End Sub

Sub Setup_Encoder_Pins

```
SetPin GP24, DIN, PULLUP      'Pico User Switch
SetPin GP10, DIN, PULLUP      'Encoder Button Pressed
SetPin GP28, INTB, Enc_Spin, PULLUP 'Encoder Phase-1
SetPin GP29, INTB, Enc_Spin, PULLUP 'Encoder Phase-2
SetPin GP27, DIN, PULLUP      'Kill Button
```

End Sub

Sub Enc_Spin

```
Static integer e1%, e2%, last_e1%, last_e2%
e1% = Pin(GP28)
e2% = Pin(GP29)
If e1% <> last_e1% And e2% <> last_e2% Then GoTo Leave_Enc_Spin
On (last_e1% << 1) + last_e2% + 1 GoTo 240,230,250,260
GoTo Leave_Enc_Spin
```

230 On (e1% << 1) + e2% + 1 GoTo 233, Leave_Enc_Spin, Leave_Enc_Spin, 236 233 enc_val% = enc_val% + 1 : ' Clockwise

GoTo Leave_Enc_Spin

236 enc_val% = enc_val% - 1 : ' counter Clockwise

GoTo Leave_Enc_Spin

240 On (e1% << 1) + e2% + 1 GoTo Leave_Enc_Spin, 244, 245, Leave_Enc_Spin 244 enc_val% = enc_val% - 1 : ' counter Clockwise

GoTo Leave_Enc_Spin

245 enc_val% = enc_val% + 1 : ' Clockwise

GoTo Leave_Enc_Spin

250 On (e1% « 1) + e2% + 1 GoTo 251, Leave_Enc_Spin, Leave_Enc_Spin, 254 251 enc_val% = enc_val% - 1 : ' counter Clockwise

GoTo Leave_Enc_Spin

254 enc_val% = enc_val% + 1 : ' Clockwise

GoTo Leave_Enc_Spin

260 On (e1% « 1) + e2% + 1 GoTo Leave_Enc_Spin, 262, 263, Leave_Enc_Spin 262 enc_val% = enc_val% + 1 : ' Clockwise

GoTo Leave_Enc_Spin

263 enc_val% = enc_val% - 1 : ' counter Clockwise

GoTo Leave_Enc_Spin

Leave_Enc_Spin:

last_e1% = e1%
last_e2% = e2%
End Sub

End

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