Rotary Encoder

Frequency Counter

JP2

VSS	1
VDD	2
V0	3
RS	4
R/W	5
E	6
DB0	7
DB1	8
DB2	9
DB3	10
DB4	11
DB5	12
DB6	13
DB7	14
A	15
K	16

Tester

JP3

1	VSS
2	VDD
3	V0
4	RS
5	R/W
6	E
7	DB0
8	DB1
9	DB2
10	DB3
11	DB4
12	DB5
13	DB6
14	DB7
15	A
16	K

LCD

DB7 DB6 VDD VSS

R1 1k
R2 1k
R3 10k
R4 10k

JP1
1	A
2	Gnd
3	B

Encoder

VSS RS VDD R8 10k

R2 2
3

R5 10k
C1 100nF
R7 470
R6 10k

JP4
1	F_in
2	Gnd

Freq

DB0-3 may be kept unpopulated (pull-up resistors in LCD module).