CONNECTORS

J1
Y IN

J2
Y CHAIN

J3
HANDWHEEL

INTEGRATED CIRCUITS AND MODULES

U1
AM26LV32E

PASSIVES AND INDICATORS

C1
100nF 50V X7R

R1
100R

R2
100R

R3
100R

R4
120R 0.25W

R7
2k2

R5
120R 0.25W

R8
2k2

R6
120R 0.25W

R9
2k2

R10
560R 1%

R11
470R 1%

C2
100nF 50V X7R

F1
PTC 0.5A

D1
SMAJ5.0A

C3
10uF 16V X5R

C4
1uF 16V X7R

SOLDER LINKS

JP3
CHAIN P3 OPEN

JP4
CHAIN P4 OPEN

JP5
CHAIN P5 OPEN

JP10
TERM A

JP13
PULLUP A

JP16
SINGLE A

JP11
TERM B

JP14
PULLUP B

JP17
SINGLE B

JP12
TERM Z

JP15
PULLUP Z

JP18
SINGLE Z

TEST PADS

TP1 +3V3
TP2 GND
TP3 +5V_ENC
TP4 VREF
TP5 ENC_A
TP6 ENC_B
TP7 ENC_Z

All TERM, PULLUP and SINGLE links ship open (differential input, no termination).

Never close TERM and SINGLE together on one channel.

Open hardware
License: CERN-OHL-S-2.0

Smoothieware extension boards

Sheet: /
File: rotary-encoder-handwheel-interface.kicad_sch

Title: Handwheel Encoder Interface

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