VCC
+5V
+3V3

J1
1
IOREF   2
RESET   3
PWR_FLAG 4
PWR_FLAG 5
6
PWR_FLAG 7
PWR_FLAG 8
Power
GND

J2
SCL/A5   1
SDA/A4   2
AREF   3
4
13   5
12   6
*11   7
*10   8
*9   9
8   10
Digital/PWM
GND

J3
A0   1
A1   2
A2   3
A3   4
5
6
Analog

J4
7   1
*6   2
*5   3
4   4
*   5
2   6
TX/1   7
RX/0   8
Digital/PWM

+3V3   VS
U101
Si8640BA-B-IU
16 VDD2   VDD1 1
10 EN2
14 B1   A1   3
A0
A1 13 B2   A2   4
12 B3   A3   5
11 B4   A4   6
15 GND2   GND1 2
GND   GNDS

R101
100k   1 J101
R102   2 AB1
100k

R103
100k   1 J102
R104   2 AB2
100k

C101   C102   C103   C104
22n   22n   22n   22n
GNDS   GNDS   GNDS   GNDS

VS
D101
SMAJ5.0CA
GNDS

VS
PWR_FLAG
F101
Fuse_Small
1 J103
PWR_FLAG   2 PWR
GNDS

+3V3
+3V3
JP102   JP103
R106 R107
10k   10k
R105
10k
+3V3

SDA/A4   3 SDA   VCC 4 +3V3
SCL/A5   1 SCL
5 WP   GND   2
U102
AT24CS02-STUM
GND

JP101
WP
GND

* Indicates a PWM-capable pin

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Eurovibes / Benedikt Spranger
Sheet:
File: dreh_shield.kicad_sch
Title: Arduino Uno R3 rotary encoder input shield
Size: A4   Date: 2025-12-13
KiCad E.D.A. 9.0.6

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