Perimeter 1 → ADC_3/ACMP_I4 [1]

Perimeter 2 → PIO0_17/ADC_9 [2]

Coin detection → PIO0_13/ADC_10 [3]

PIO0_12 [4]

$\overline{RESET}$/PIO0_5 [5]

PIO0_4/ADC_11/WAKEUP/$\overline{TRST}$ [6]

H-Bridge 1 + ← SWCLK/PIO0_3/TCK [7]

H-Bridge 1 - ← SWDIO/PIO0_2/TMS [8]

H-Bridge 2 + ← PIO0_11/I2C0_SDA [9]

H-Bridge 2 - ← PIO0_10/I2C0_SCL [10]

TSSOP20

Open-drain

Open-drain

[20] PIO0_14/ADC_2/ACMP_I3

[19] PIO0_0/ACMP_I1/TDO

[18] VREFP

[17] VREFN

[16] V$_{SS}$

[15] V$_{DD}$

[14] PIO0_8/XTALIN

[13] PIO0_9/XTALOUT → Servo PWM 2

[12] PIO0_1/ACMP_I2/CLKIN/TDI → Servo PWM 1

[11] PIO0_15 → Electromagnet

aaa-011391

5V

To μc ADC input

R2

R1

5V or 3.3V

VDD

5V or 3.3V

P-MOSFET

R_D

R_T

R_T

R_D

M

LTV-847

N-MOSFET

LTV-847

H-Bridge -

H-Bridge +