Common Load
Cell Colors:

Red — E+
Black — E-
White — A-
Green or Blue — A+
Yellow — Shield

$AVDD = VBG(R1+R2)/R2$

VBG = 1.25V

JP4
5 — AVDD
4 — E-
3 — A-
2 — A+
1

JP2
2 — B-
1 — B+

C4 0.1uF
C5 0.1uF
C6 10uF

VDD
VCC
VCC

GND
GND
GND

C3 0.1uF
C7 10uF

GND
GND

L1 3.3uH

Q1 MMBT4403

VCC

R1 20k
R2 8.2K

GND

C2 0.1uF

R3 100

C1 0.1uF

R4 100

U1

VSUP	DVDD
BASE	RATE
AVDD	XI
VFB	XO
AGND	DOUT
VBG	PD_SCK
INA-	INB+
INA+	INB-

HX711

VDD

R5 10K

VCC

SJ2

Default: Closed - Data rate set to 10SPS
Open jumper to set to 80SPS
Increases noise per read

GND
GND

VCC VDD

J1
1
2
3 — DAT
4 — SCK
5

VDD: 2.7-5.5V
VCC: 2.7-5.5V
IO: 2.7-5.5V

GND

VCC vs VDD:

VCC is the main supply voltage, while VDD sets the
digital logic voltage reference and should be
connected to microcontroller supply voltage, or
shorted to VCC.

sparkfun
open hardware

TITLE: SparkFun_HX711_Load_Cell

Design by: N. Seidle
Revision By: Alex Wende

REV:
v11

Date: 5/15/2019 10:05 AM

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