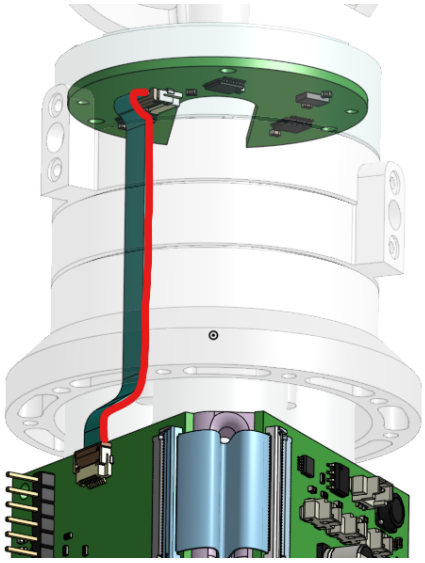
Release	Date	Designer	Check	Comments
A1	06/01/2023	EB	SN	Initial drawing
B1	22/02/2023	EB	SN	– [fixed] J1 has top contacts – [changed] Bigger fonts
				– [fixed] blabla... – [added] – [removed] – [changed] – [other]

Pacman board gathers 3 absolute encoders with an IMU. It is set at the top of the Orbita system and sends angular positions of the 3 axis + IMU data. It is connected to the Houston board through a FFC.



FFC cable has contacts on the same side. Connector on Houston has contacts on the bottom, connector on Pacman has contacts on the top. Connector are thus not inverted (1 on 1, 2 on 2).

M2,5 MountingHoles with Pad

H1 H2 H3

H4 H5

ø2,1 Locating Pin Holes

H6

PCB00020
ASE00036

H7
Logo Pollen

FID1
FID2
FID3
Fiducials

Encoders

Fichier: encoders.kicad_sch

POLLEN ROBOTICS

Pollen Robotics

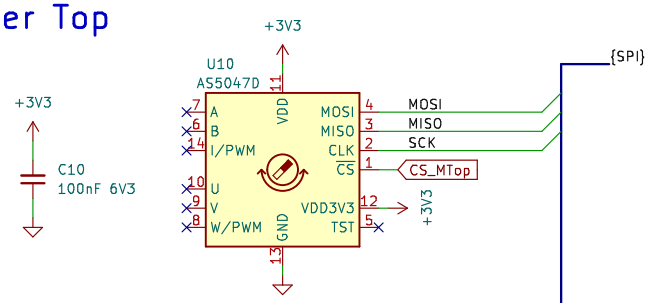
Sheet: /
File: carte_Pacman.kicad_sch

Title: Pacman

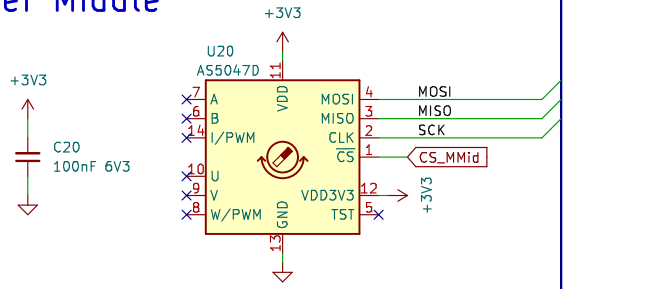
Size: A4	Date: 2023-02-27	**Rev: B1**
KiCad E.D.A. kicad 6.0.2+dfsg-1		Id: 1/2

Nota:
- ICs are inherently ESD protected to ≥ 2kV (HBM) so no need to use extra ESD diodes.

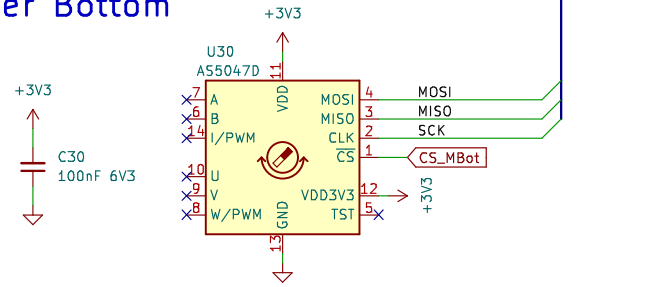
Encoder Top

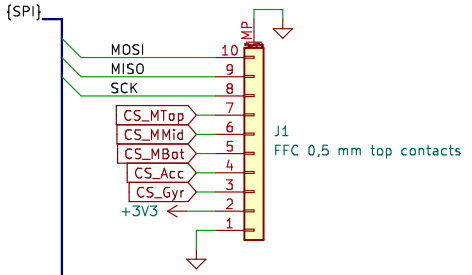


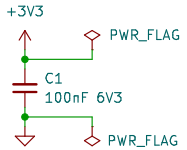
Encoder Middle



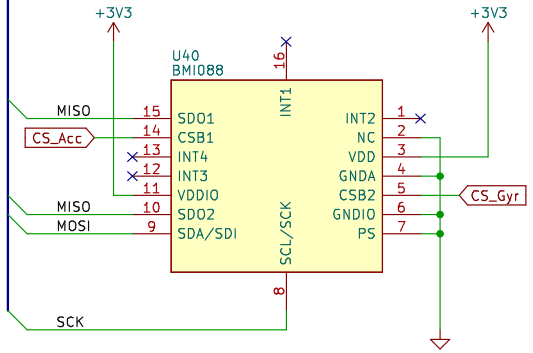
Encoder Bottom

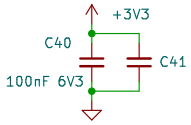






IMU





Pollen Robotics

Sheet: /Encoders/
File: encoders.kicad_sch

Title: Pacman

Size: A4	Date: 2023-02-27	**Rev: B1**
KiCad E.D.A. kicad 6.0.2+dfsg-1		Id: 2/2