First Screen

Orange F 18:21 · ⯑ 88%

pfod ESP32_BT01denna
connected

Use YES

Actual Mowing Area1

Mag / Smag
29/29

Mini Smag 80
1 — 200

Timeout (s) if Outside 3
1 — 20

Big AREA Smag Center 435
100 — 2000

Tracking Max Speed PWM 180
50 — 255

Circle Arc disance (cm)
Perimeter

EXIT

Annotations (first screen)

- **Use or Not** → Use YES
- **See or Change the Actual Mowing Area** → Actual Mowing Area1
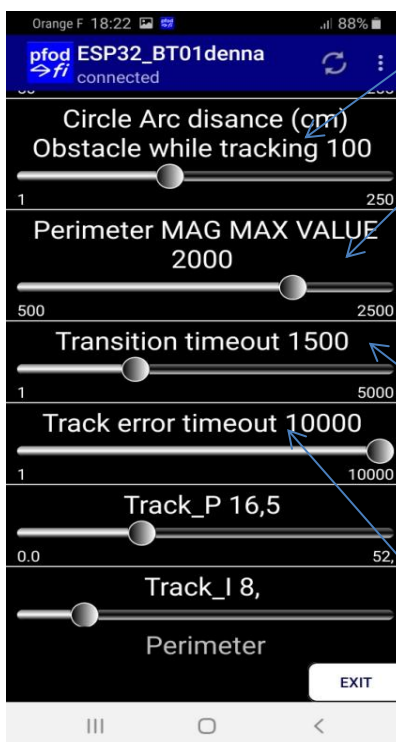- **Mag is the realtime result of wire Power, negative if the mower is inside the Area. Smag is averrage and smooth of the reading** → Mag / Smag
- **Value use to detect a sender issue or cutting wire. If Smag is lower it's ERROR** → Mini Smag 80
- **If the Mag is positive (Mower outside) during this duration it's ERROR** → Timeout (s) if Outside 3
- **On Big Area the noise into Mag in the middle area can change from positive to negative, This setting allow the mower to skip it (Always > at Mini Smag)** → Big AREA Smag Center 435
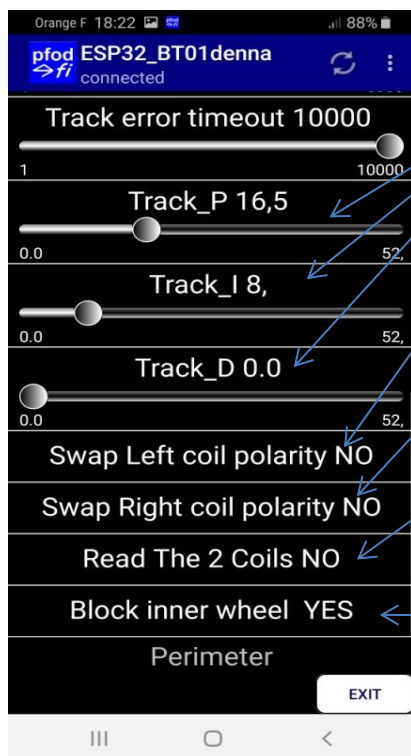- **Normal Tracking PWM speed** → Tracking Max Speed PWM 180

Second Screen

Orange F 18:22 · ⯑ 88%

pfod ESP32_BT01denna
connected

Circle Arc disance (cm)
Obstacle while tracking 100
1 — 250

Perimeter MAG MAX VALUE
2000
500 — 2500

Transition timeout 1500
1 — 5000

Track error timeout 10000
1 — 10000

Track_P 16,5
0.0 — 52,

Track_I 8,

Perimeter

EXIT

Annotations (second screen)

- **When hit obstacle while tracking it's the Arc value** → Obstacle while tracking 100
- **The maximum value you can read when mower is near the wire (Use when tracking)** → Perimeter MAG MAX VALUE 2000
- **When tracking it's the duration before full roll** → Transition timeout 1500
- **While tracking if the mower never change from inside to outside for this duration it's ERROR** → Track error timeout 10000

Track error timeout 10000

1   10000

Track_P 16,5

0.0   52,

Track_I 8,

0.0   52,

Track_D 0.0

0.0   52,

Swap Left coil polarity NO

Swap Right coil polarity NO

Read The 2 Coils NO

Block inner wheel YES

Perimeter

EXIT

PID for tracking Change value according to your chassis

Software reverse left coil Inside Outside

Software reverse right coil Inside Outside

Read Left and right coil (Not usefull actualy)

Avoid the 2 wheels run at opposite direction while tracking for smooth movement