

This arduino sketch is for the "Onkruidvrij in the Rij" conveyor weeder demonstrator. This demonstrator has a conveyor belt with fake crops and weeds. The position of these plants needs to be tracked.

Inputs:

- AMT212b RS485 encoder on the driveshaft to track shaft revolutions
- Infrared sensor module that detects a reflective tape on the black belt to track belt revolutions.

Output:

Arduino is connected via USB to a computer. Open terminal [115200](#)

baud and type "Help" to get the commandlist:

```
"Type READ to read the sensor once",  
"Type RUN to start continues measument",  
"Type STOP to stop continues measument",  
"Type RESET to reset settings and encoder",  
"Type VELOCITY to receive velocity data [m/s], only updates if systems runs  
-> type RUN to run.",  
"Type DISTANCE to recieve the traveld distance [m]], only updates if  
systems runs -> type RUN to run.",  
"Print an checksum example with correct data",  
"Print an checksum example with incorrect data"
```