Start 9/26 @ 14:50

Some questions we need to get answered:

- Types of cars going though that lot

- How many cars

- How they’re parking (front or rear facing the wall)

Source of questions:

<https://www.omron.com/global/en/technology/omrontechnics/vol50/007.html>

They make a case of the magnetometer being a good thing, but mentions we may need to create an algorithm to detect a pattern to ensure that a car is or is not present.

This sensor likes bright and shiny surfaces.

Time of Flight sensor may be a good second form of detection, but it does get affected by the weather. It can be a good addition none the less.

[https://www.adafruit.com/product/3317#technical-details](https://www.adafruit.com/product/3317" \l "technical-details)

This one can read reliably at 1.2 meters (around 4 ft), but can reach UP TO 2 meters (around 6ft) depending on ambient lighting conditions.

(ORDERED 2 sensors with some cables for easier connecting. Estimated to arrive on Thursday by UPS)

The initial idea is to ‘see’ an object within 6ft above ground as a type of sanity check so that even if the readings from the magnetometer is low, the ToF sensor could possibly help give a fuller image.

The tech specs on the ToF Sensor

<https://learn.adafruit.com/adafruit-vl53l0x-micro-lidar-distance-sensor-breakout>

STOP @15:56