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| --- | --- | --- |
| INPUT | PROCESS | OUTPUT |
| Inductive Loop Detector  (Simulated)   * Detects cars passing over the inductive loop and produces a certain signal that the system detects that signifies that a car just passed over | Amount-of-car-dependent countdown timer   * When a certain number of cars that the input detects meets the threshold the original time will be replaced by a a quicker time to give way to other lanes | Stoplight   * Outputs the corresponding signal depending on the processed data of the input. |