

Inputs:

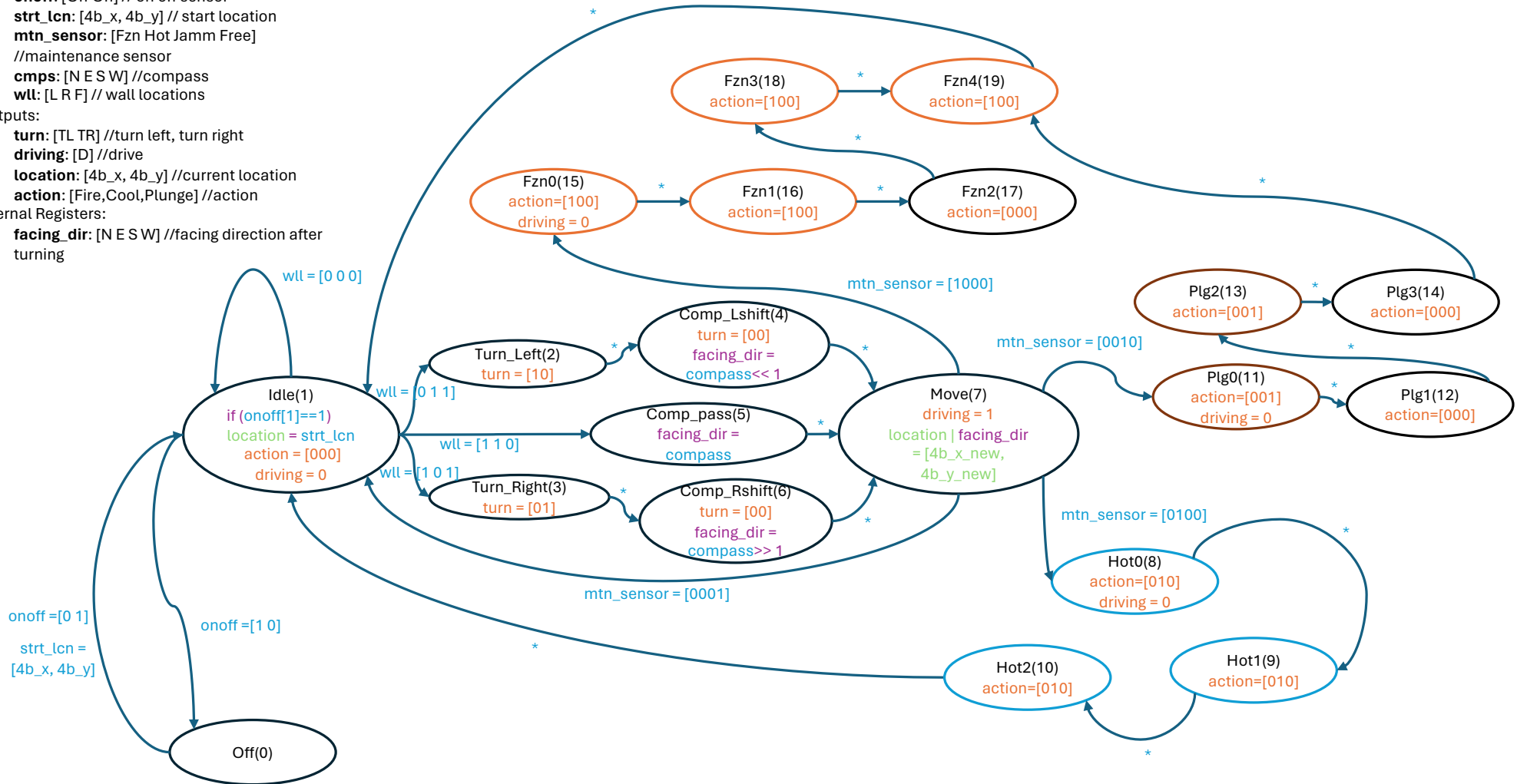
- **onoff**: [Off On] // on off sensor
- **strt_lcn**: [4b_x, 4b_y] // start location
- **mtn_sensor**: [Fzn Hot Jamm Free] // maintenance sensor
- **cmps**: [N E S W] // compass
- **wll**: [L R F] // wall locations

Outputs:

- **turn**: [TL TR] //turn left, turn right
- **driving**: [D] //drive
- **location**: [4b_x, 4b_y] //current location
- **action**: [Fire,Cool,Plunge] //action

Internal Registers:

- **facing_dir**: [N E S W] //facing direction after turning



inputs, reg outputs (if a change occurs), transitions, stored in register, output stored in FSM register too, state

Note: shifting operations must have continuous boundaries.