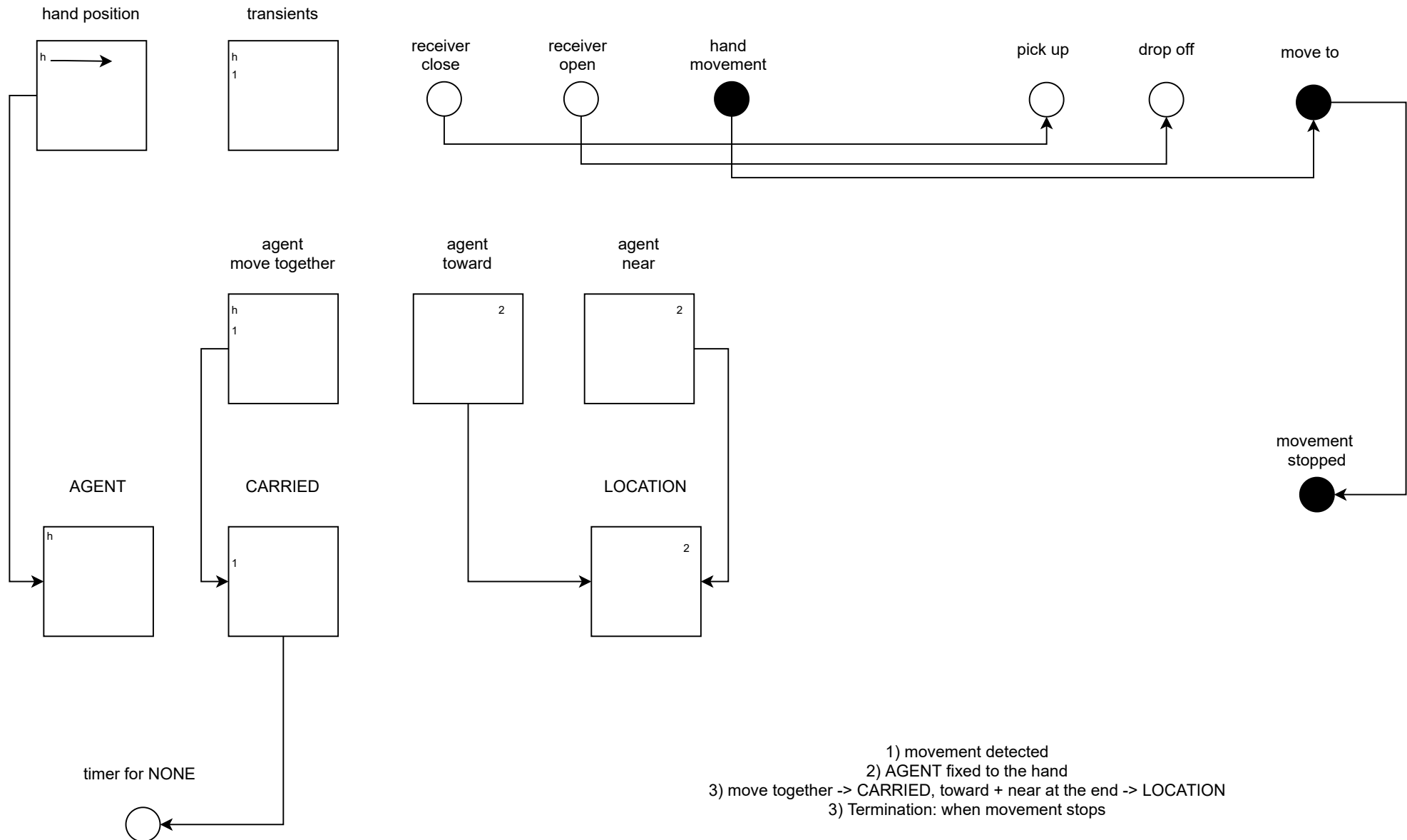
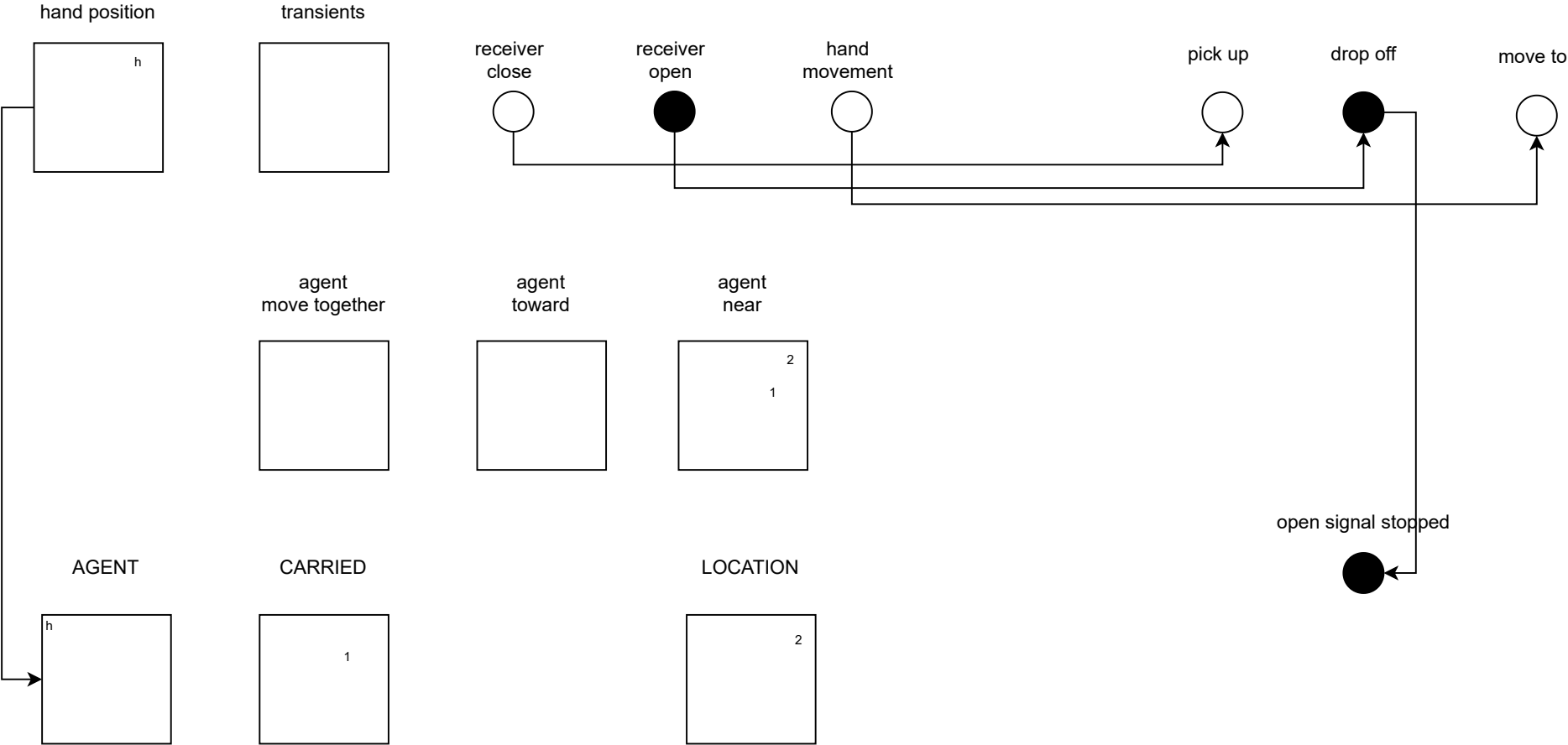


# Scenario 1: move\_to



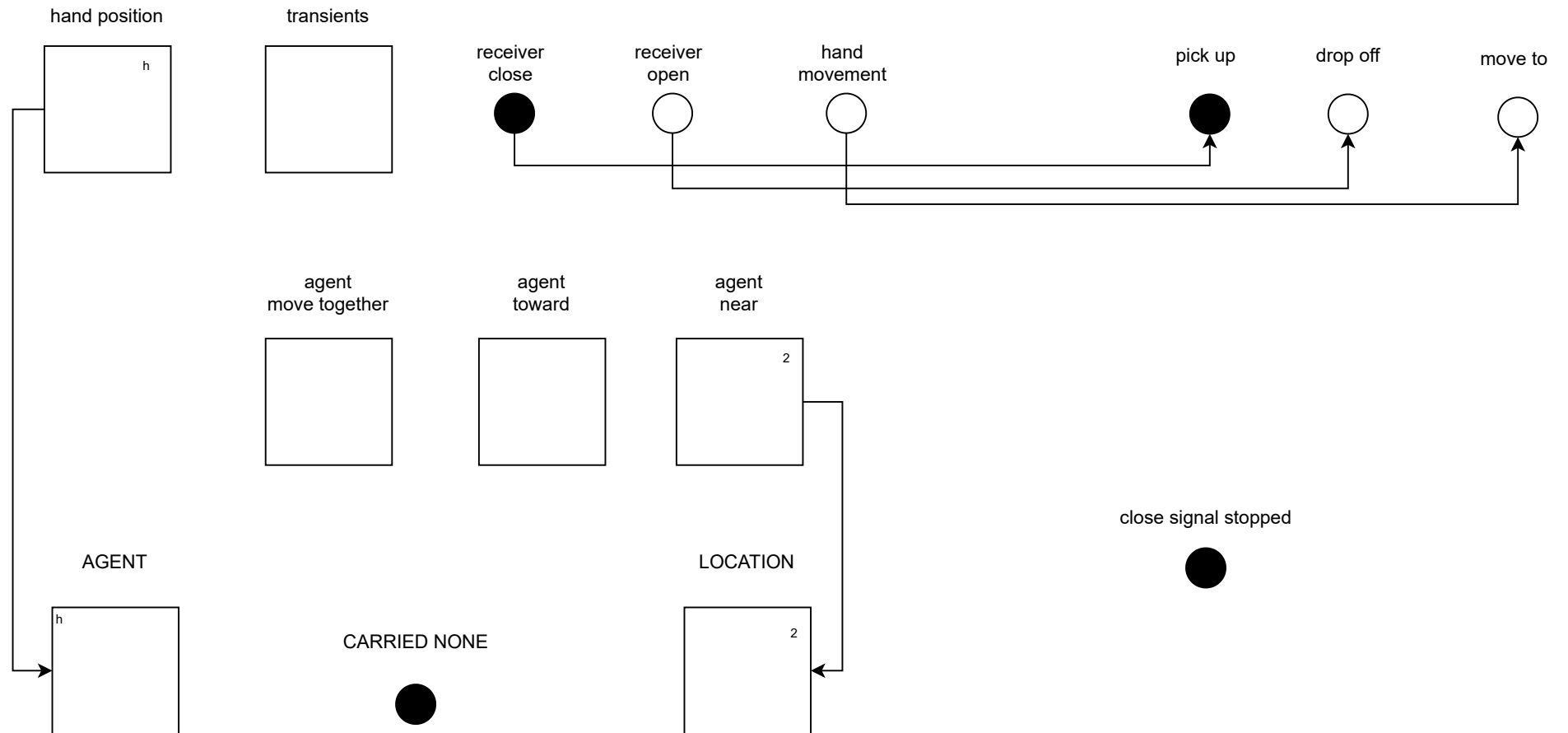
- 1) movement detected
- 2) AGENT fixed to the hand
- 3) move together -> CARRIED, toward + near at the end -> LOCATION
- 3) Termination: when movement stops

Scenario 2: drop\_off



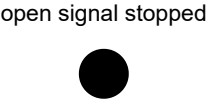
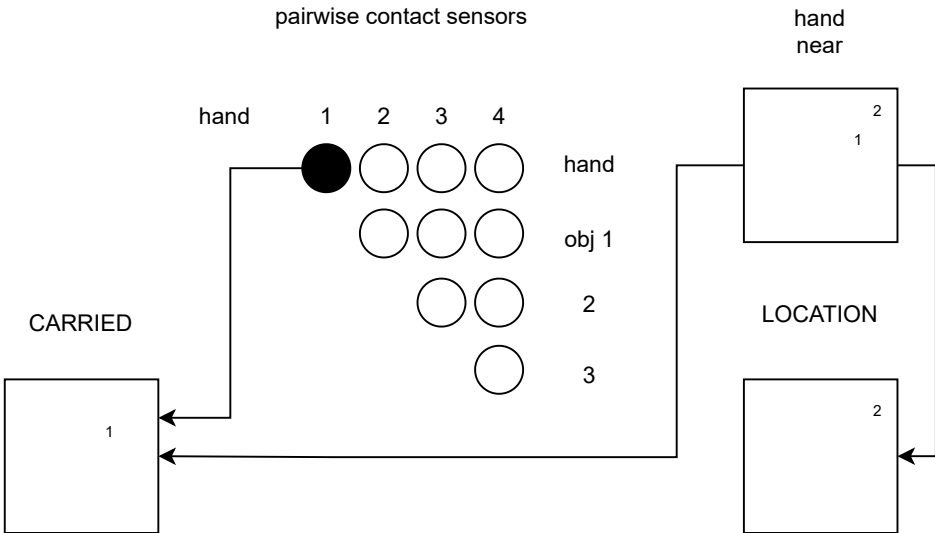
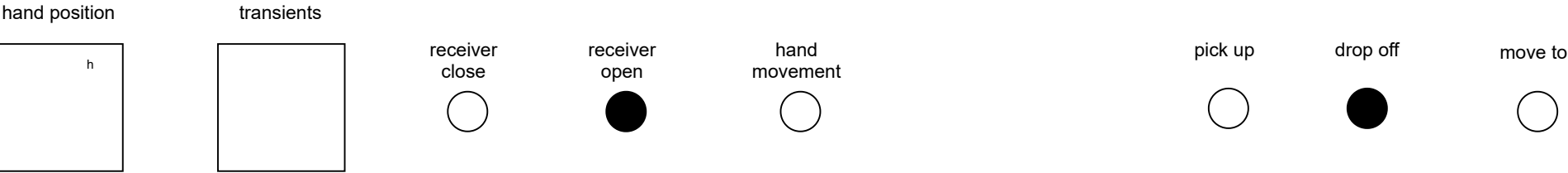
- 1) hand opening detected (simulated by boost)
- 2) AGENT fixed to the hand
- 3) CARRIED / LOCATION just depends on memory from the previous action
- 3) Termination: when opening motion stops

## Scenario 3: pick\_up



- 1) hand opening detected (simulated by boost)
- 2) AGENT fixed to the hand
- 3) CARRIED fixed to NONE, LOCATION is an object that is near
- 3) Termination: when closing motion stops

Scenario 2: drop\_off using contact sensor



- 1) emitter signal decide primitive
- 2) object that had contact initially -> carried, another object that is near -> location
- 3) termination when signal stops

PROBLEM: using contact information requires object segmentation in all 2D fields