|  |  |
| --- | --- |
| S1 | sensor Working |
| S2 | sensor Not Working |
| S3 | Detecting Open Door |
| S4 | Detect Movement |
| S5 | Detect Intruder |
| e1 | sensed of movement |
| e2 | sensed |
| e3 | open Detected |
| e4 | move Detected |
| e5 | sensor Failure |
| e6 | repair |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **State/event** | E1 | E2 | E3 | E4 | E5 | E6 |
| S1 | S4 | S3 | ------ | ------ | S2 |  |
| S2 | ------- | -------- | ------- | -------- | -------- | S1 |
| S3 | -------- | -------- | S5 | -------- | -------- | ------- |
| S4 |  |  |  | S5 |  |  |
|  |  |  |  |  |  |  |