|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Num | Name | Light  [w | s | walk] | Time | Input[ w | s | walk] | | | | | | | |
| 000 | 001 | 010 | 011 | 100 | 101 | 110 | 111 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 0 | go S | 10000101 | 1000 | go S | H\_W wait | go S | H\_W wait | S\_W wait | H\_W wait | S\_W wait | H\_W wait |
| 1 | H\_W wait | 10001001 | 500 | go H | go H | go H | go H | go H | go H | go H | go H |
| 2 | S\_W wait | 10001001 | 500 | go W | go W | go W | go W | go W | go W | go W | go W |
| 3 | go W | 00110001 | 1000 | go W | W\_H wait | W\_S wait | W\_S wait | go W | W\_H wait | W\_S wait | W\_S wait |
| 4 | W\_H wait | 01010001 | 500 | go H | go H | go H | go H | go H | go H | go H | go H |
| 5 | W\_S wait | 01010001 | 500 | go S | go S | go S | go S | go S | go S | go S | go S |
| 6 | go H | 10010010 | 1000 | go H | go H | H\_S1 wait off | H\_S1 wait off | S\_H1 wait off | S\_H1 wait off | S\_H1 wait off | S\_H1 wait off |
| 7 | H\_S1 wait off | 10010000 | 200 | H\_S2 wait on | H\_S2 wait on | H\_S2 wait on | H\_S2 wait on | H\_S2 wait on | H\_S2 wait on | H\_S2 wait on | H\_S2 wait on |
| 8 | H\_S2 wait on | 10010010 | 200 | H\_S3 wait off | H\_S3 wait off | H\_S3 wait off | H\_S3 wait off | H\_S3 wait off | H\_S3 wait off | H\_S3 wait off | H\_S3 wait off |
| 9 | H\_S3 wait off | 10010000 | 200 | H\_S4 wait on | H\_S4 wait on | H\_S4 wait on | H\_S4 wait on | H\_S4 wait on | H\_S4 wait on | H\_S4 wait on | H\_S4 wait on |
| 10 | H\_S4 wait on | 10010010 | 200 | H\_S5 wait off | H\_S5 wait off | H\_S5 wait off | H\_S5 wait off | H\_S5 wait off | H\_S5 wait off | H\_S5 wait off | H\_S5 wait off |
| 11 | H\_S5 wait off | 10010000 | 200 | H\_S6 wait on | H\_S6 wait on | H\_S6 wait on | H\_S6 wait on | H\_S6 wait on | H\_S6 wait on | H\_S6 wait on | H\_S6 wait on |
| 12 | H\_S6 wait on | 10010010 | 200 | go S | go S | go S | go S | go S | go S | go S | go S |
| 13 | S\_H1 wait off | 10010000 | 200 | S\_H2 wait on | S\_H2 wait on | S\_H2 wait on | S\_H2 wait on | S\_H2 wait on | S\_H2 wait on | S\_H2 wait on | S\_H2 wait on |
| 14 | S\_H2 wait on | 10010010 | 200 | S\_H3 wait off | S\_H3 wait off | S\_H3 wait off | S\_H3 wait off | S\_H3 wait off | S\_H3 wait off | S\_H3 wait off | S\_H3 wait off |
| 15 | S\_H3 wait off | 10010000 | 200 | S\_H4 wait on | S\_H4 wait on | S\_H4 wait on | S\_H4 wait on | S\_H4 wait on | S\_H4 wait on | S\_H4 wait on | S\_H4 wait on |
| 16 | S\_H4 wait on | 10010010 | 200 | S\_H5 wait off | S\_H5 wait off | S\_H5 wait off | S\_H5 wait off | S\_H5 wait off | S\_H5 wait off | S\_H5 wait off | S\_H5 wait off |
| 17 | S\_H5 wait off | 10010010 | 200 | S\_H6 wait on | S\_H6 wait on | S\_H6 wait on | S\_H6 wait on | S\_H6 wait on | S\_H6 wait on | S\_H6 wait on | S\_H6 wait on |
| 18 | S\_H6 wait on | 10010000 | 200 | go W | go W | go W | go W | go W | go W | go W | go W |