

SOP Alarm System Truth Table

Combination Lock

Motion Sensor	A	B	C	On/Off Switch	Green LED	Red LED	Alarm
0	0	0	0	0	0	0	0
0	0	0	0	1	1	0	0
0	0	0	1	0	0	0	0
0	0	0	1	1	1	1	0
0	0	1	0	0	0	0	0
0	0	1	0	1	1	1	0
0	0	1	1	0	0	0	0
0	0	1	1	1	1	1	0
0	1	0	0	0	0	0	0
0	1	0	0	1	1	1	0
0	1	0	1	0	0	0	0
0	1	0	1	1	1	1	0
0	1	1	0	0	0	0	0
0	1	1	0	1	1	1	0
0	1	1	1	0	0	0	0
0	1	1	1	1	1	1	0
1	0	0	0	0	0	0	0
1	0	0	0	1	0	0	1
1	0	0	1	0	0	0	0
1	0	0	1	1	0	1	1
1	0	1	0	0	0	0	0
1	0	1	0	1	0	1	1

1	0	1	1	0	0	0	0
1	0	1	1	1	1	1	0
1	1	0	0	0	0	0	0
1	1	0	0	1	0	1	1
1	1	0	1	0	0	0	0
1	1	0	1	1	0	1	1
1	1	1	0	0	0	0	0
1	1	1	0	1	0	1	1
1	1	1	1	0	0	0	0
1	1	1	1	1	0	1	1