

| Cases | Input from 4 sensors(with least significant bit being the highest priority) | Output Error Detection depending on the sensor output |
|-------|-----------------------------------------------------------------------------|-------------------------------------------------------|
| 1 | 0000 | 0 |
| 2 | 0001 | 1 |
| 3 | 0010 | 0 |
| 4 | 0011 | 1 |
| 5 | 0100 | 0 |
| 6 | 0101 | 1 |
| 7 | 0110 | 1 |
| 8 | 0111 | 1 |
| 9 | 1000 | 0 |
| 10 | 1001 | 1 |
| 11 | 1010 | 1 |
| 12 | 1011 | 1 |
| 13 | 1100 | 0 |
| 14 | 1101 | 1 |
| 15 | 1110 | 1 |
| 16 | 1111 | 1 |