

Digital Cipher & Interlock System

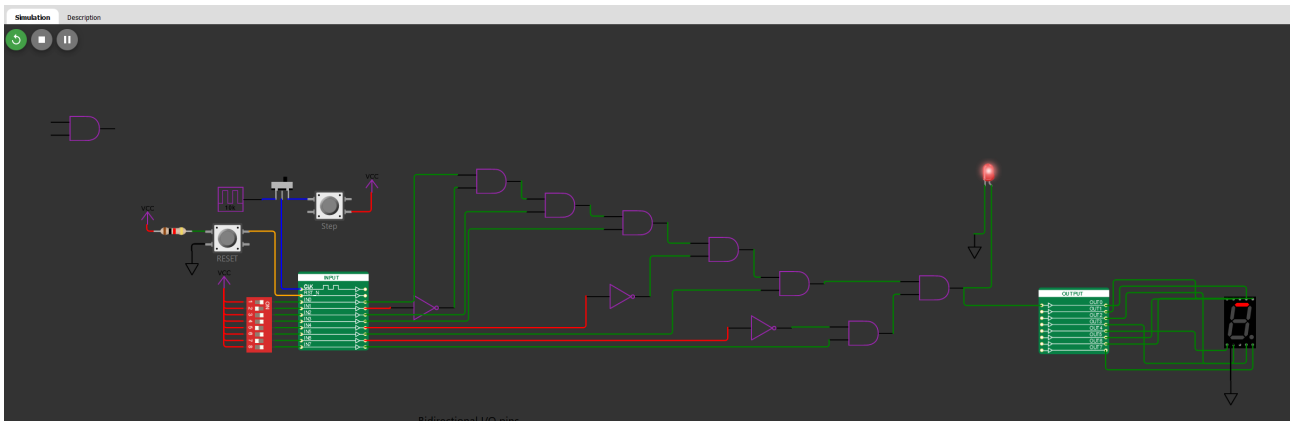


Figure 1: picture

- Author: Eric German MKME Lab
- Description: Digital Cipher with 256 combinations & one solution which sets output to high
- Language: Wokwi

How it works

Can be used as a simple puzzle demo or as a safety chain/interlock on equipment. Being hardware interlocks without microcontroller logic it should be acceptable in some industry certifications. The high or low input can be tied to the sensors and switches in the safety chain. Only when all are in the desired state will the output be OKAY/HIGH. NO and NC switches/sensors can be tied to the appropriate pins.

How to test

Provide below inputs on the required pins to activate output

IO

#	Input	Output	Bidirectional
0	HIGH	HIGH	none
1	LOW	NA	none
2	HIGH	NA	none
3	HIGH	NA	none
4	LOW	NA	none

#	Input	Output	Bidirectional
5	HIGH	NA	none
6	LOW	NA	none
7	HIGH	NA	none