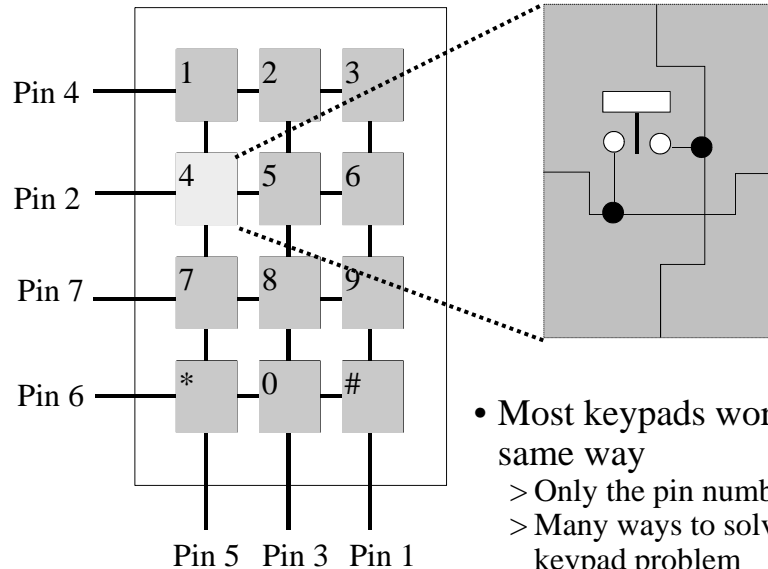




EEL 3744

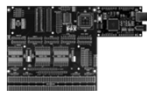
Keypad



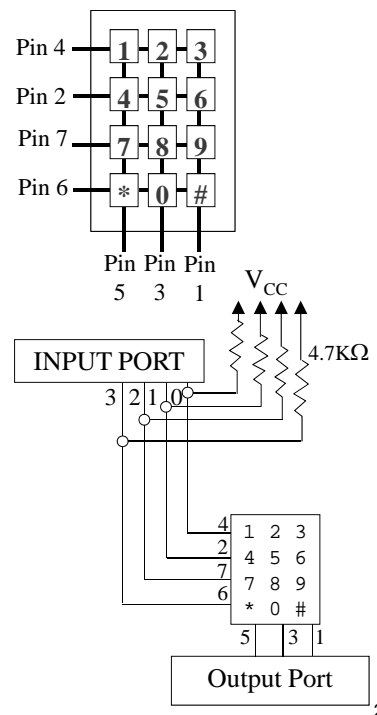
- Most keypads work the same way
 - > Only the pin numbers vary
 - > Many ways to solve the keypad problem

University of Florida, EEL 3744 – File #Keypad
© Dr. Eric M. Schwartz

1

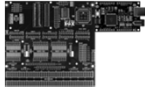
EEL 3744
Keypad Discussion

- The row (column) wires are pulled-up
- Search for a key a column at a time
 - > Output a low to pin 5 (high to pins 3 & 1) and test keys in first column (pins 4, 2, 7, 6)
 - If pin 4 reads low, then key 1 was pressed
 - If pin 2 reads low, then key 4 was pressed, etc.
 - If none of the pins is low, go on
 - > Output low to pin 3 (pins 5 & 1 high)
 - > If a key is pressed, set the strobe for one cycle only and wait for the key to be released before scanning for the next key
- Remember that you **must** wait for a pressed key to be released to move on



University of Florida, EEL 3744 – File #Keypad
© Dr. Eric M. Schwartz

2



EEL 3744

The End!