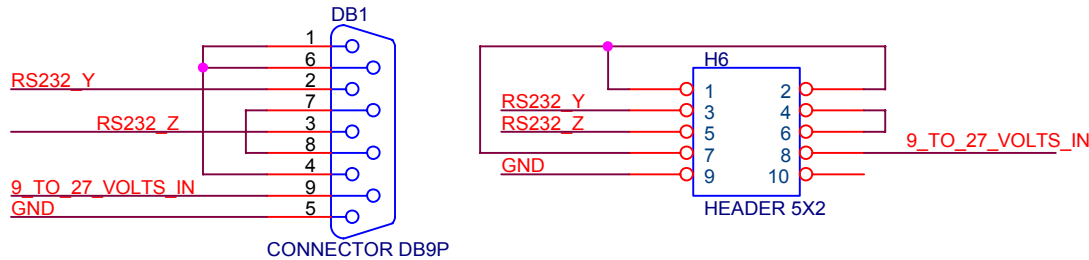


UP TO 16 PUSHBUTTONS CAN BE ADDED USING H2. A GRAYHILL "87BC3-201" KEYPAD CAN BE DIRECTLY CONNECTED BY CONNECTING PINS 1-17 OF THE LEFT COLUMN TO THE LONG PIN ROW ON THE KEYPAD, AND PINS 2-16 OF THE RIGHT COLUMN TO THE SHORT PIN ROW ON THE KEYPAD.

PUSHBUTTONS SHOULD ONLY MAKE ELECTRICAL CONTACT WHEN PRESSED. NO PUSHBUTTON SHOULD MAKE CONTINUIOUS CONTACT, EXCEPT WHEN ACTIVELY PRESSED. CONNECT "KEYCOMMON" TO ONE SIDE OF ALL PUSHBUTTONS, AND "KEYX" TO THE OTHER SIDE OF INDIVIDUAL BUTTONS..

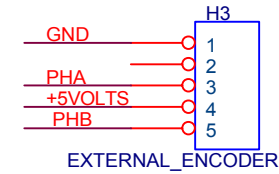
PROTECT ALL "KEYX" AND "KEYCOMMON" LINES FROM STATIC DISCHARGE.

UP TO 150 MILLIAMPERES MAY BE OBTAINED FROM +5VOLTS.



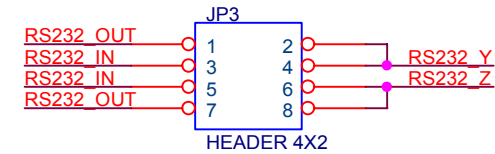
EITHER A MALE DB-9 CONNECTOR OR PIN CONNECTOR H6 WILL BE INSTALLED.

CONNECT TO THE "SERIAL JOGBOX" CONNECTOR ON KUPERNODE. IF THE SERIAL JOGBOX BOARD IS ORIENTED SO THIS CONNECTOR IS AT THE BOTTOM OF THE BOARD, PIN 1 IS AT YOUR LOWER LEFT. CONNECT THIS TO THE PIN LABELED "1" ON THE KUPERNODE2 SERIAL JOGBOX CONNECTOR.



HEADER H3 CONNECTS TO AN EXTERNAL 5 VOLT ENCODER SUCH AS A US DIGITAL "S2-2048." THE PINOUT IS THE SAME AS FOR "S1" AND "S2" SERIES ENCODERS.

THE ENCODER SHOULD DRAW LESS THAN 150 MILLIAMPERES.



JP3 IS AN 8 PIN HEADER. IF THE SERIAL JOGBOX BOARD IS ORIENTED SO THIS CONNECTOR IS AT YOUR LOWER RIGHT, JUMPERS SHOULD BE INSTALLED AS FOLLOWS, FROM TOP TO BOTTOM...

- OFF
- ON
- OFF
- ON

Title		
"KUPERBOY" STYLE SERIAL JOGBOX PINOUTS		
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