



Using Charlieplexing
to control 10 LEDs
with 4 wires

What lines do what optical relays			
Col	C1	C2	C3
Col0	H1	L2	-
Col1	L2	H1	-
Col2	-	H1	L2
Col3	-	L2	H1
Col4	H1	-	L2
Col5	L2	-	H1
Col6	H1	-	-
Col7	L2	-	-
Col8	-	H1	-

ColC0	1
ColC1	2
ColC2	3
ColC3	4
RowC0	5
RowC1	6
RowC2	7

resetGnd	1
resetbutton	2
Col9	3
Col8	4
Col7	5
Col6	6
Col5	7
Col4	8
Col3	9
Col2	10
Col1	11
Col0	12
Row3	13
Row2	14
Row1	15
Row0	16

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just the interace for arduino or ESP8266 module

Sheet: /
File: mk14keysCP.sch

Title: MK14keysCP

Size: A4
KIcad E.D.A. kicad 5.0.2+dfsg1-1bp9+1

Date: 2021-10-04

Rev: V1.1

Id: 1/1

Reset Mk14 +5V
Reset MK14 capacitor

Use U5 for flying reset leads
or both if required to switch between

Using Charlieplexing
to control 5 LEDs
with 3 wires