









## **Bill of Materials**

Designator	Description	Value	Q
C1	Electrolytic capacitor 16v/50v	10µF	1
C2, C3, C4, C5	Ceramic or tantalum capacitor	100nF	4
FV, FZ	Led 3mm Round	Red	2
IC1	4-bit D-Type Register with 3 state outputs	74LS173	1
IC2	4-Bit sync counter	74LS161	1
IC3	3-Line to 8-Line decoder/demultiplexer	74LS138	1
IC5	Quad 2-input NAND gates	74LS00	1
L1, L2, L3	Led 3mm Round	Yellow	3
P1	Pin Header, THT, pitch 2.54mm, Dual Row, Vertical, 16p	16p	1
P2	Pin Header, THT, pitch 2.54mm, Dual Row, Vertical, 32p	32p	1
P3	Pin Header, THT, pitch 2.54mm, Dual Row, Vertical, 8p	8p	1
P4	Pin Header, THT, pitch 2.54mm, Dual Row, Vertical, 6p	6р	1
R1, R2, R3, R4	Resistor axial	330Ω	4
R7, R8, R9, R10, R11	Resistor axial	220Ω	5
RN1	Resistor array 8 elements,9 pins	220Ω	1
SP1, SP2, SP3, SP4, SP5	Led 3mm Round	Blue	8



## **Assembly List**

Desig.	Description	Value
C1	Electrolytic capacitor 16v/50v	10µF
C2	Ceramic or tantalum capacitor	100nF
C3	Ceramic or tantalum capacitor	100nF
C4	Ceramic or tantalum capacitor	100nF
C5	Ceramic or tantalum capacitor	100nF
FV	Led 3mm Round	Red
FZ	Led 3mm Round	Red
IC1	4-bit D-Type Register with 3 state outputs	74LS173
IC2	4-Bit sync counter	74LS161
IC3	3-Line to 8-Line decoder/demultiplexer	74LS138
IC5	Quad 2-input NAND gates	74LS00
L1	Led 3mm Round	Yellow
L2	Led 3mm Round	Yellow
L3	Led 3mm Round	Yellow
P1	Pin Header, THT, pitch 2.54mm, Dual Row, Vertical, 16p	16p
P2	Pin Header, THT, pitch 2.54mm, Dual Row, Vertical, 32p	32p
P3	Pin Header, THT, pitch 2.54mm, Dual Row, Vertical, 8p	8p
P4	Pin Header, THT, pitch 2.54mm, Dual Row, Vertical, 6p	6p
R1	Resistor axial	330Ω
R2	Resistor axial	330Ω
R3	Resistor axial	330Ω
R4	Resistor axial	330Ω
R7	Resistor axial	220Ω
R8	Resistor axial	220Ω
R9	Resistor axial	220Ω
R10	Resistor axial	220Ω
R11	Resistor axial	220Ω
RN1	Resistor array 8 elements,9 pins	220Ω
SP1	Led 3mm Round	Blue
SP2	Led 3mm Round	Blue
SP3	Led 3mm Round	Blue
SP4	Led 3mm Round	Blue
SP5	Led 3mm Round	Blue
SP6	Led 3mm Round	Blue
SP7	Led 3mm Round	Blue
SP8	Led 3mm Round	Blue