

Bill of Materials: relaysboard.fz

Assembly List

Label	Part Type	Properties
D1	Rectifier Diode	Typ Rectifier; Part-Nr. 1N4148
D2	Rectifier Diode	Typ Rectifier; Part-Nr. 1N4148
D3	Rectifier Diode	Typ Rectifier; Part-Nr. 1N4148
D4	Rectifier Diode	Typ Rectifier; Part-Nr. 1N4148
J1	Screw terminal - 2 pins	Pins 2; Pitch 0.1in (2.54mm)
J2	Screw terminal - 2 pins	Pins 2; Pitch 0.1in (2.54mm)
J3	Screw terminal - 2 pins	Pins 2; Pitch 0.1in (2.54mm)
J4	Screw terminal - 2 pins	Pins 2; Pitch 0.1in (2.54mm)
J6	Screw terminal - 6 pins	Pins 6; Pitch 0.1in (2.54mm)
K1	Relay	Contact rating 125VAC @ 1 AMP; Voltage 12V; switching circuit SPDT; Part-Nr. FRS1B-S
K2	Relay	Contact rating 125VAC @ 1 AMP; Voltage 12V; switching circuit SPDT; Part-Nr. FRS1B-S
K3	Relay	Contact rating 125VAC @ 1 AMP; Voltage 12V; switching circuit SPDT; Part-Nr. FRS1B-S
K4	Relay	Contact rating 125VAC @ 1 AMP; Voltage 12V; switching circuit SPDT; Part-Nr. FRS1B-S
LED1	yellow LED - 5mm	Forward voltage 1.8V; Color yellow
LED2	yellow LED - 5mm	Forward voltage 1.8V; Color yellow
LED3	yellow LED - 5mm	Forward voltage 1.8V; Color yellow
LED4	yellow LED - 5mm	Forward voltage 1.8V; Color yellow

Label	Part Type	Properties
Q1	NPN-Transistor	Type NPN; Part-Nr. BC546C
Q2	NPN-Transistor	Type NPN; Part-Nr. BC546C
Q3	NPN-Transistor	Type NPN; Part-Nr. BC546C
Q4	NPN-Transistor	Type NPN; Part-Nr. BC546C
R1	1k Ω Resistor	Tolerance $\pm 5\%$; Resistor 1k Ω ; Pitch 400 mil
R10	3.3k Ω Resistor	Tolerance $\pm 5\%$; Resistor 3.3k Ω ; Pitch 400 mil
R11	3.3k Ω Resistor	Tolerance $\pm 5\%$; Resistor 3.3k Ω ; Pitch 400 mil
R12	3.3k Ω Resistor	Tolerance $\pm 5\%$; Resistor 3.3k Ω ; Pitch 400 mil
R2	1k Ω Resistor	Tolerance $\pm 5\%$; Resistor 1k Ω ; Pitch 400 mil
R3	1k Ω Resistor	Tolerance $\pm 5\%$; Resistor 1k Ω ; Pitch 400 mil
R4	1k Ω Resistor	Tolerance $\pm 5\%$; Resistor 1k Ω ; Pitch 400 mil
R5	0 Ω Resistor	Tolerance $\pm 5\%$; Resistor 0 Ω ; Pitch 400 mil
R6	0 Ω Resistor	Tolerance $\pm 5\%$; Resistor 0 Ω ; Pitch 400 mil
R7	0 Ω Resistor	Tolerance $\pm 5\%$; Resistor 0 Ω ; Pitch 400 mil
R8	0 Ω Resistor	Tolerance $\pm 5\%$; Resistor 0 Ω ; Pitch 400 mil
R9	3.3k Ω Resistor	Tolerance $\pm 5\%$; Resistor 3.3k Ω ; Pitch 400 mil

Shopping List

Amount	Part Type	Properties
4	1k Ω Resistor	Tolerance $\pm 5\%$; Resistor 1k Ω ; Pitch 400 mil
4	3.3k Ω Resistor	Tolerance $\pm 5\%$; Resistor 3.3k Ω ; Pitch 400 mil
4	0 Ω Resistor	Tolerance $\pm 5\%$; Resistor 0 Ω ; Pitch 400 mil
4	NPN-Transistor	Type NPN; Part-Nr. BC546C
4	Rectifier Diode	Typ Rectifier; Part-Nr. 1N4148
4	Relay	Contact rating 125VAC @ 1 AMP; Voltage 12V; switching circuit SPDT; Part-Nr. FRS1B-S

Amount	Part Type	Properties
4	Screw terminal - 2 pins	Pins 2; Pitch 0.1in (2.54mm)
1	Screw terminal - 6 pins	Pins 6; Pitch 0.1in (2.54mm)
4	yellow LED - 5mm	Forward voltage 1.8V; Color yellow

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