

LISTA DE MATERIAL

Item	Quant.	Referencia	Descrição	Part Number	Fabricante
1	1	BZ1	Sonoalarme autooscilante 5V	SM-5V-C	Digilectron
2	1	C1	Capacitor Eletrolítico 1000uF/25V	1000uF/25V	Epcos
3	1	C2	Capacitor Multicamadas	100nF	Vishay
4	1	C3	Capacitor Eletrolítico 100uF/16V	100uF/16V	Epcos
5	2	C5,C4	Capacitor Multicamadas	10nF	Vishay
6	2	D2,D1	Diodo retificador 1N4007	1N4007	ON Semi
7	2	JP3,JP1	Conector KRE-2	HEADER 2	
8	1	JP2	Pino Berg fila simples 2x1	JUMPER	
9	2	JS1,JS2	Jumper de Solda	JS2	
10	4	J1,J2,J3,J4	Pino Berg fila dupla 10x2	HEADER 10X2	
11	1	LD1	Diodo emissor IR 5mm	TSFF5210	Vishay
12	2	LD2, LD3	LED 5mm vermelho	TLHK4400L	Vishay
13	2	Q2,Q1	Diodo detetor IR 5mm	BPV10NF	Vishay
14	1	Q3	Transistor NPN BC547	BC547	Fairchild
15	1	RL1	Relé contato simples 12V	AT1RC2-12V	Metaltex
16	9	R1,R5,R7,R11,R12,R16,R23,R28,R30	Resistor 1/4W 1K 5%	1K	Yageo
17	1	R2	Resistor 1/4W 68K 5%	68K	Yageo
18	1	R3	Resistor 1/4W 47K 5%	47K	Yageo
19	2	R8,R4	Resistor 1/4W 8K2 5%	8K2	Yageo
20	1	R6	Resistor 1/4W 1M 5%	1M	Yageo
21	4	R9,R13,R15,R17	Resistor 1/4W 22K 5%	22K	Yageo
22	8	R18,R20,R22,R24,R25,R26,R27,R29	Resistor 1/4W 10K 5%	10K	Yageo
23	3	R10,R19,R21	Trimpot multivoltas vertical	10K	Burns
24	1	R14	Trimpot multivoltas vertical	1K	Burns
25	1	SENS1	Sensor de fumaça MQ-2	MQ-2	Winsen
26	1	SENS2	Sensor de gás GLP MQ-6	MQ-6	Winsen
27	1	S1	Chave PushButton NA	SW PUSHBUTTON	Joto
28	1	TM1	Sensor Thermopile	ZTP-135	Amphenol
29	1	U1	Regulador Linear 5V - TO-220	LM7805CT	Fairchild
30	3	U2,U5,U6	CI - 2 x Amplificador Operacional	LM358	ON Semi
31	1	U3	CI - 4 x Amplificador Operacional	LM324	ON Semi
32	1	U4	Sensor de Pressão	MPX2050	Freescale
33	1		Placa de Circuito Impresso dupla face		
34	1		Eletrovalvula para gás 12VDC		Rodogás