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A Parallel Relay Interface RELAY05

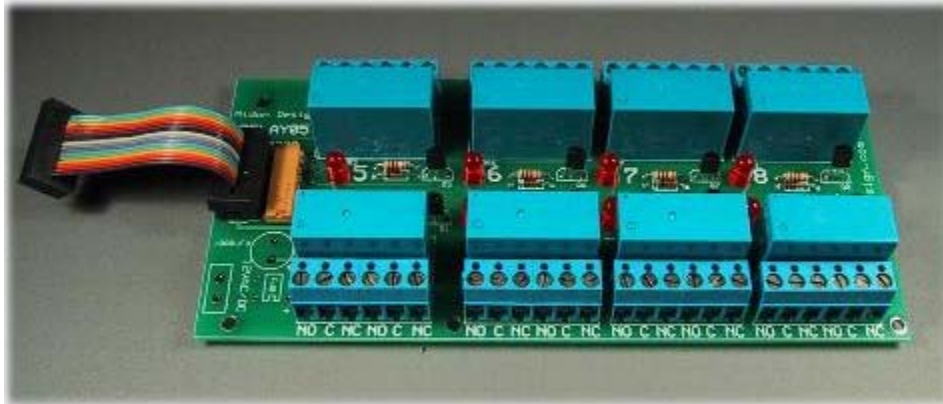


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Introduction

Thank you for your purchase of the RELAY05. The following instructions provide information on how to connect your RELAY05.

To complete this project, you will need to connect it to a source of logic control input and power. We assume that you have purchased this kit in conjunction with the TEMP05 and the following instructions apply to use of the RELAY05 with that kit.

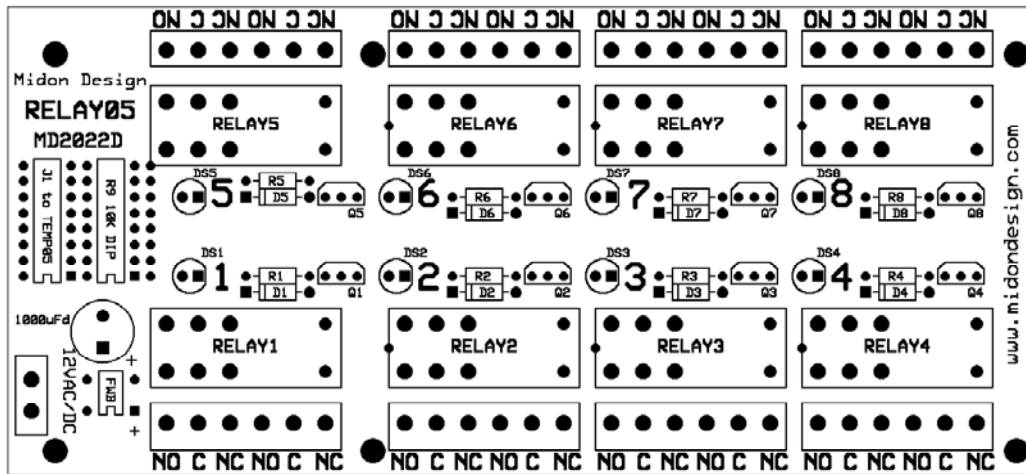


Figure 1 Parts Placement

Connections to RELAY05

The control logic is connected to RELAY05 via a 16-pin DIP jumper J1. The pin-out for J1 is shown in Table 1. If you are using RELAY05 with TEMP05, connect a 16 pin DIP to DIP jumper cable from J1 on RELAY05 to J3 on the other unit. Keep the jumper as short as possible.

If you choose to connect RELAY05 to another product, please follow the jumper pin-out details in Table 1.

The relay outputs are connected as shown in Figure 1. NC (Normally Closed), NO (Normally Open) and C (Common) contacts are available from each pole of each relay, providing you with 16 different switching points.

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The relay contacts are rated for 5A at 250VAC or 5A at 28VDC. Do not exceed these ratings!

Table 1. J1 Pinout

Pin	Description
1	Relay 1 control pin (0V = off, 5 to 12 V = on)
2	Relay 2 control pin
3	Relay 3 control pin
4	Relay 4 control pin
5	Relay 5 control pin
6	Relay 6 control pin
7	Relay 7 control pin
8	Relay 8 control pin
9	Ground
10	Ground
11	Ground
12	Ground
13	+12 Volts DC
14	+12 Volts DC
15	+12 Volts DC
16	+12 Volts DC

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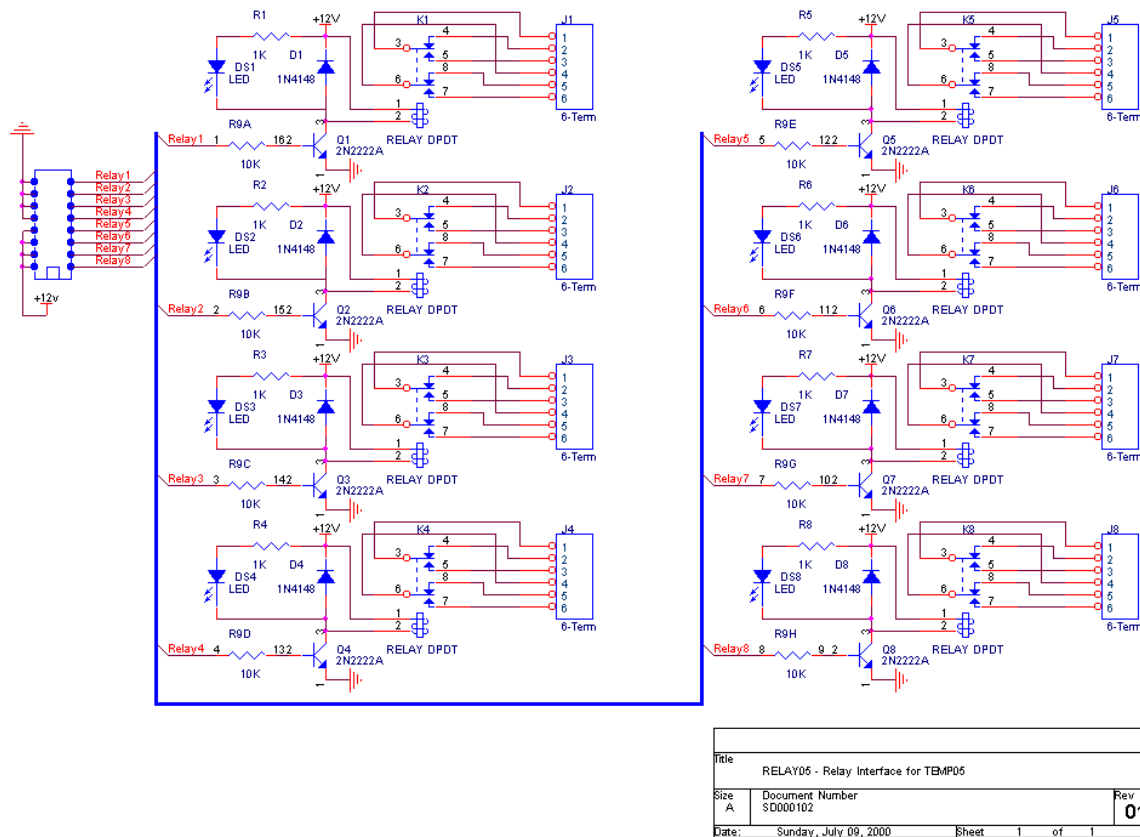


Figure 2 Schematic Diagram

RELAY05 Stocklist

Qty	Designation	Part No	Description
1	PCB	MD2022	RELAY05 PCB
8	R1-R8	1K	Resistor 1/4W 5% 1K
8	D1-D8	1N4148	Signal diode
8	Q1-Q8	PN2222	Transistor NPN TO-92
8	DS1-DS8	LED	LED Red
16	J1-J16	3TERM	Terminal Block, 5.08MM, 3 position,
1	U1	DIP16	DIP Socket, 16 pin
8	K1-K8	DPDT12	Relay DPDT 12V (Radio Shack 900-2335)
1	R9	10KDIP8	DIP Resistor, 10K 8 Pack

Your comments are appreciated. If you would like to submit feature requests or product recommendations, please e-mail us.

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Thank you!

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