CZH-LABS
Electronics-Salon

8 SPDT 10Amp Power Relay Module
Model: D-228 Series (Ver. 2.0)

Schematic:

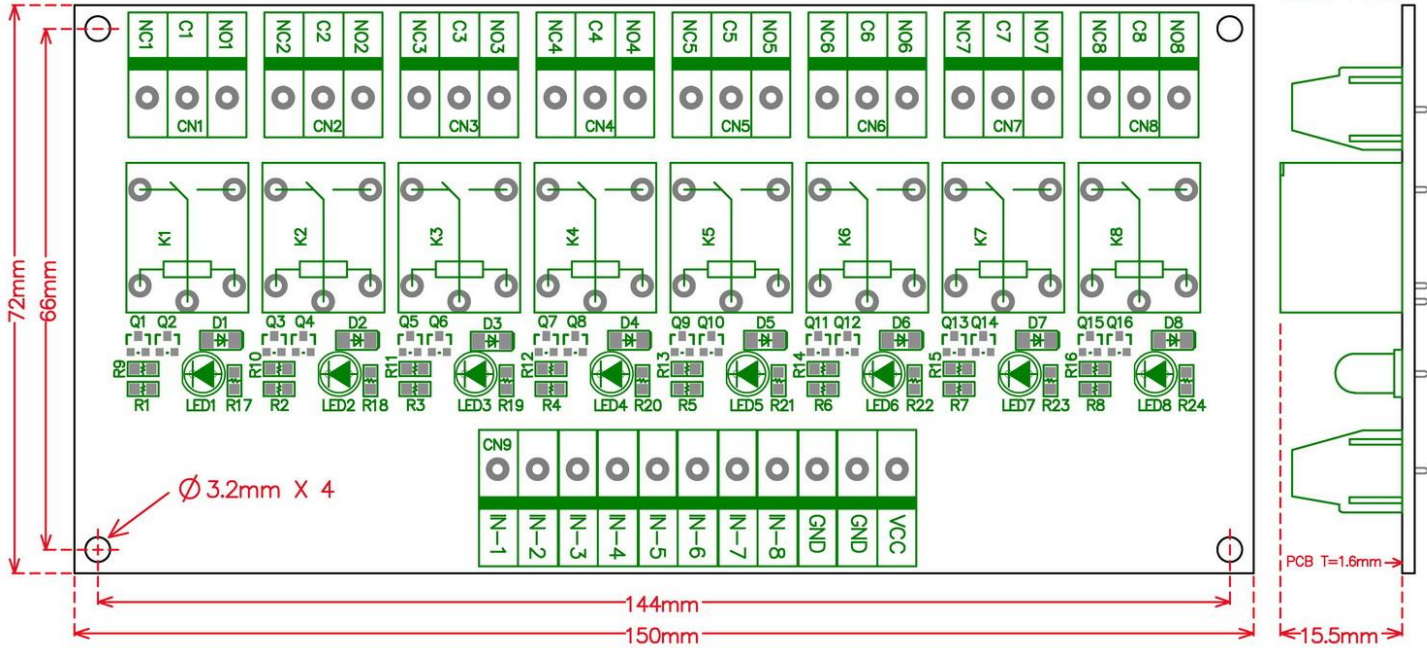|				
SCHEMATIC				
OUTPUT			INPUT	CHANNEL NO.
SCREW CONNECTOR TERMINAL	RELAY	CONTROL CIRCUIT UINT	SCREW CONNECTOR TERMINAL	
			○ VCC ○ GND	POWER SUPPLY
NO1 ○ C1 ○ NC1 ○ RLY1			○ IN1 ○ GND	1
NO2 ○ C2 ○ NC2 ○ RLY2			○ IN2	2
| | | |	| | | |	| | | |	| | | |	| | | |
NOx ○ Cx ○ NCx ○ RLYx			○ INx	X
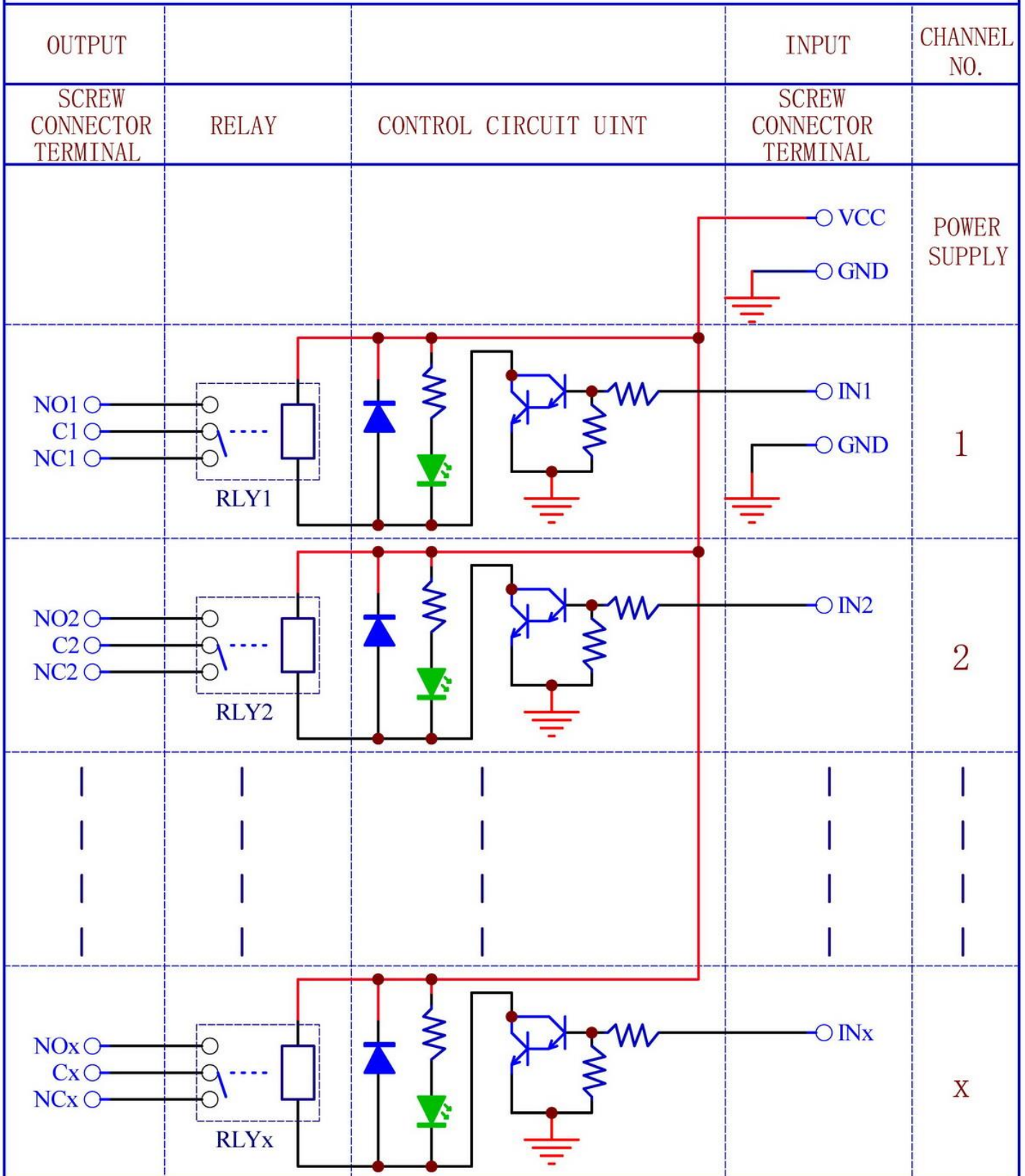
Dimensions:

Panel mount

TOP VIEW

SIDE VIEW

| NC1 | C1 | NO1 | NC2 | C2 | NO2 | NC3 | C3 | NO3 | NC4 | C4 | NO4 | NC5 | C5 | NO5 | NC6 | C6 | NO6 | NC7 | C7 | NO7 | NC8 | C8 | NO8 |

CN1 CN2 CN3 CN4 CN5 CN6 CN7 CN8

K1 K2 K3 K4 K5 K6 K7 K8

Q1 Q2 D1 Q3 Q4 D2 Q5 Q6 D3 Q7 Q8 D4 Q9 Q10 D5 Q11 Q12 D6 Q13 Q14 D7 Q15 Q16 D8

R9 R1 LED1 R17 R10 R2 LED2 R18 R11 R3 LED3 R19 R12 R4 LED4 R20 R13 R5 LED5 R21 R14 R6 LED6 R22 R15 R7 LED7 R23 R16 R8 LED8 R24

CN9

| IN-1 | IN-2 | IN-3 | IN-4 | IN-5 | IN-6 | IN-7 | IN-8 | GND | GND | VCC |

Ø 3.2mm X 4

72mm

66mm

144mm

150mm

15.5mm

PCB T=1.6mm

DIN rail mount

TOP VIEW

SIDE VIEW

152mm

43mm

| NC1 | C1 | NO1 | NC2 | C2 | NO2 | NC3 | C3 | NO3 | NC4 | C4 | NO4 | NC5 | C5 | NO5 | NC6 | C6 | NO6 | NC7 | C7 | NO7 | NC8 | C8 | NO8 |

Q1 Q2 D1 Q3 Q4 D2 Q5 Q6 D3 Q7 Q8 D4 Q9 Q10 D5 Q11 Q12 D6 Q13 Q14 D7 Q15 Q16 D8

R9 R1 LED1 R17 R10 R2 LED2 R18 R11 R3 LED3 R19 R12 R4 LED4 R20 R13 R5 LED5 R21 R14 R6 LED6 R22 R15 R7 LED7 R23 R16 R8 LED8 R24

| IN-1 | IN-2 | IN-3 | IN-4 | IN-5 | IN-6 | IN-7 | IN-8 | GND | GND | VCC |

87mm

DINKLE
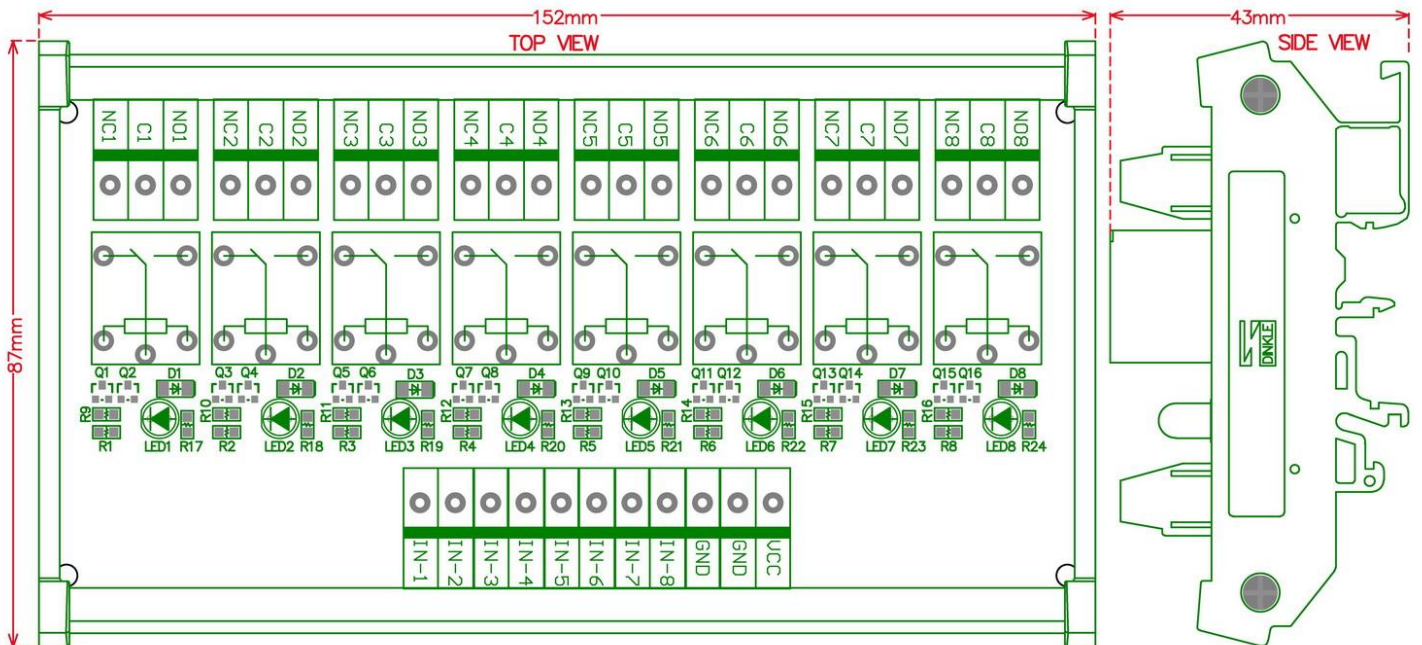
Feature:

- 8 SPDT 10Amp power relays.
- LED indicator for each relay channel.
- Darlington transistors drive relay coil (for 5V / 12V / 24V versions).
- High quality screw terminal block.
- FR-4 fiber glass PCB, dual copper layers.
- Panel mount or DIN rail mount versions are available. Taiwan DINKLE fireproof nylon material DIN rail mount carrier (not China low quality carrier), can support width 35mm / 32mm / 15mm rail, and the carrier can be taken apart for panel mount use.

Version List:

Part Number	Mount Type	Standard Operating Voltage
MD-D228/5V-1	Panel mount	5V DC
MD-D228T/5V-1	DIN rail mount	
MD-D228/12V-1	Panel mount	12V DC
MD-D228T/12V-1	DIN rail mount	
MD-D228/24V-1	Panel mount	24V DC
MD-D228T/24V-1	DIN rail mount	
MD-D228/48V-1	Panel mount	48V DC
MD-D228T/48V-1	DIN rail mount	

Characteristic Parameters:

Operating voltage				
Voltage version	5V	12V	24V	48V
Operating voltage range	3.8~7.5VDC	9~18VDC	18~36VDC	36~60VDC
Operating current (relay all action)	720mA	400mA	280mA	80mA
Operating current (relay all no action)	0mA			
Control signal input				
Low level (Relay no action)	0V ~ 0.5V			
High level (Relay action)	2.5V ~ 24V			
High level current	0.1mA@2.5V 0.4mA@5V 1.1mA@12V 2.2mA@24V			0.4mA@2.5V 1.0mA@5V 2.4mA@12V 5.0mA@24V
Output (relay switch) contact rating				
For AC	125/250VAC, 10Amp			
For DC	30VDC, 5Amp			

Wire Connect:
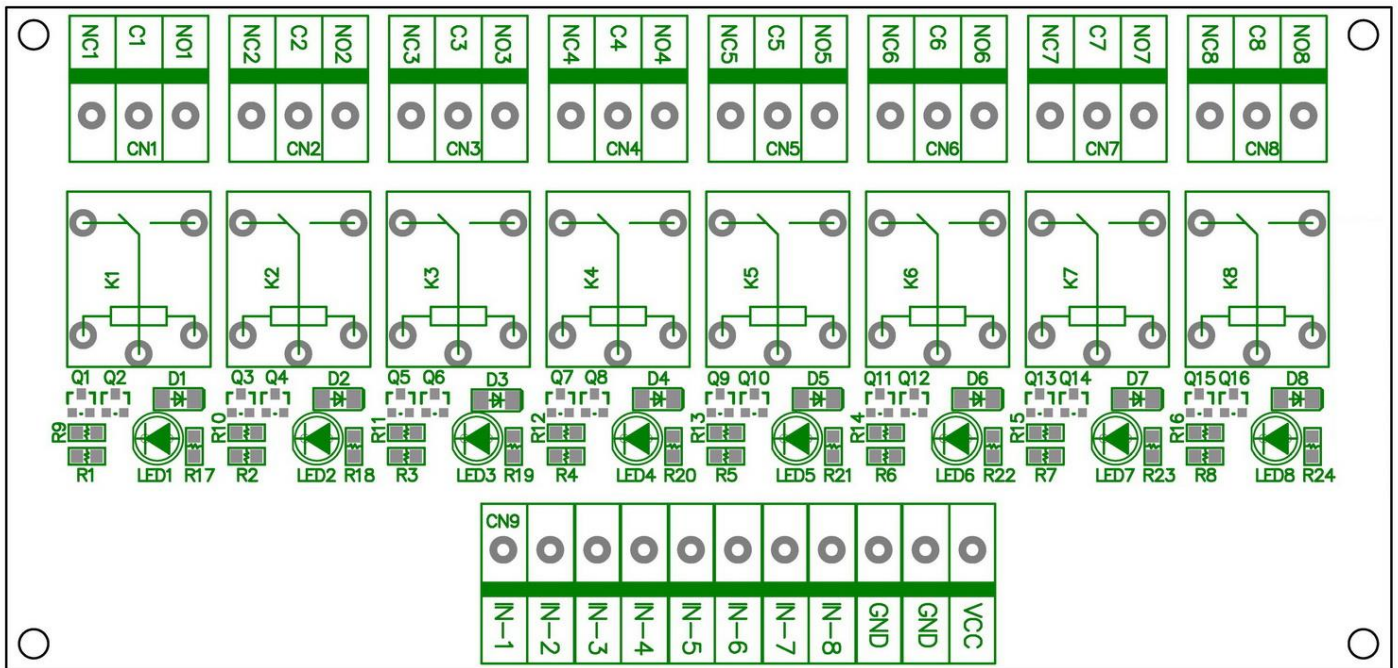
VCC: Operating power supply input (V+).
GND: Operating power supply 0V(ground).
GND: Control signal input 0V(ground).
IN-x: Control signals input.
NOx: Relay switch normally open terminal.
NCx: Relay switch normally close terminal.
Cx: Relay switch common terminal.

Terminal Block:

Pitch 5.0mm/0.197" screw terminal block.
Wire range 24AWG ~ 12AWG / 2.5mm^2
Strip length 7mm.
Screws - M2.5,steel,Cr3+ Zn plated.
Pin header and Cage - Brass.

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