DN-8K16P16R

User’s Manual

1. Functional Description

The DN-8K16P16R is a 16-channel of Power Relay Output Board, it also consisting of 16 form A relays and 16-channel of digital input terminal (Only support Source type).

The DN-8K16P16R has 17 of LED indicator functions; containing 16 LED's for Relay indication status and one to display power status.
To avoid overload from your PC's power supply, the boards allows a power input range of +12 ~ +30 VDC.

1.1. Features

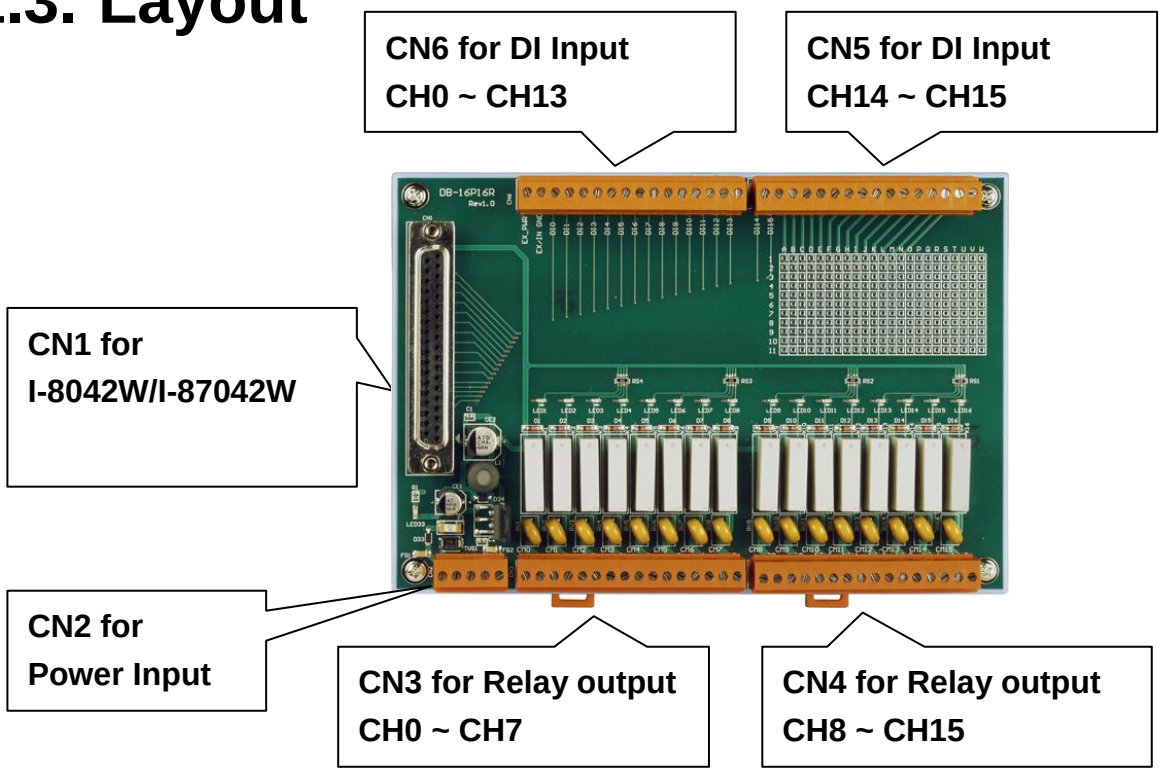
- Form A Power Relay
- The DN-8K16P16R accepts 37-pin connectors to control 16 form A relays for use with I-8042W and I-87042W
- Each LED is displayed when the corresponding relay is activated.
- Screw terminals for field wiring
- Power Input, +12 ~ +30 VDC
- Supports operating temperatures from -25 ~ +75°C
- DIN-Rail

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1.2. Specification

- Contact Arrangement: SPST-NO (1 form A)
- Max. Switching Voltage: 125 VDC, 270 VAC Rated
- Contact Current: 5A
- Max. Contact Current: 5A
- Max. Contact Capacity: 1250VA, 150W
- Operate Time (Typical): 10ms
- Release Time (Typical): 10ms
- Resistive load: 250 VAC/30 VDC, 3A 100,000ops.Min (10 ops. / minute)
- Resistive load: 250 VAC/30 VDC, 5A 6,000ops.Min (10 ops. / minute)
- Mechanically: 20,000,000 ops. At no load. (300 ops. / minute)
- Operating Temperature: -25 ~ +75°C
- Storage Temperature: -30 ~ +80°C
- Humidity: 10 ~ 90%; no condensing
- Power input range from +12 ~ +30 VDC
- Power consumption: +24V @ 0.12A. Max
- Dimensions: 118mm x 174mm

1.3. Layout



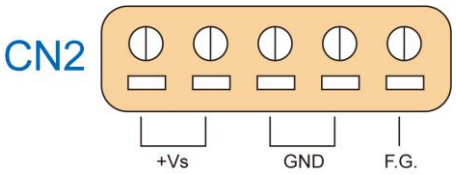
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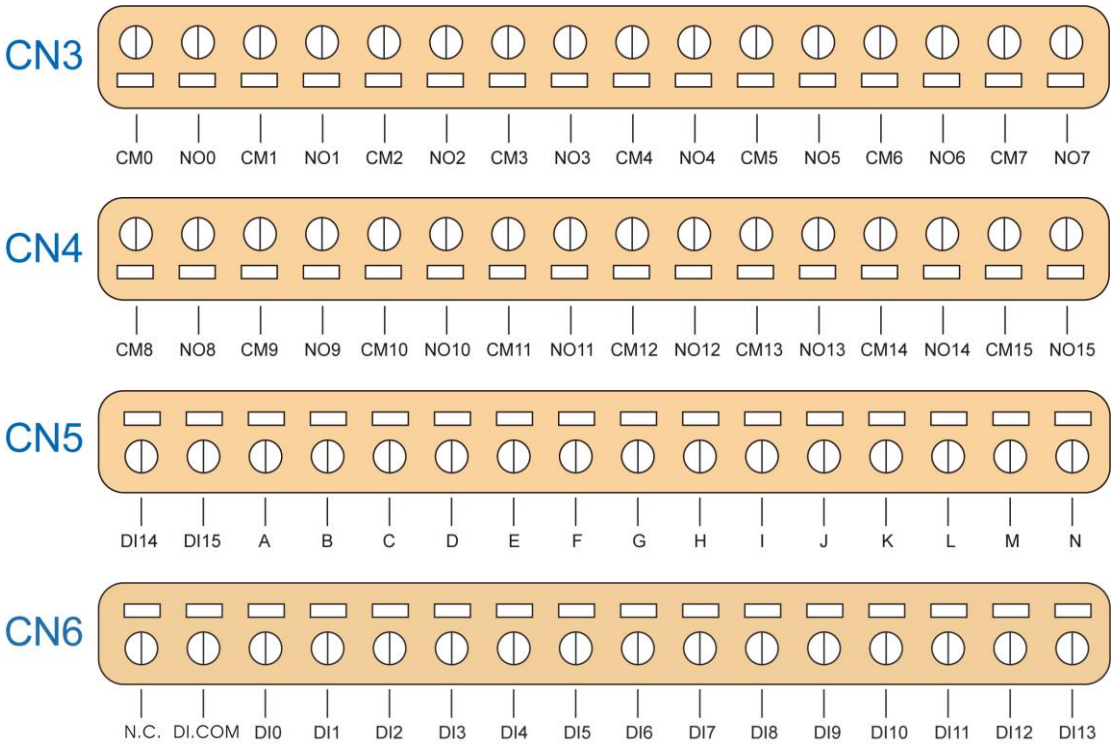
1.4. Pin Assignment

Pin Assignment Name	Terminal No.		Pin Assignment Name
DI_0	01	20	DO_0
DI_1	02	21	DO_1
DI_2	03	22	DO_2
DI_3	04	23	DO_3
DI_4	05	24	DO_4
DI_5	06	25	DO_5
DI_6	07	26	DO_6
DI_7	08	27	DO_7
DI_8	09	28	DO_8
DI_9	10	29	DO_9
DI_10	11	30	DO_10
DI_11	12	31	DO_11
DI_12	13	32	DO_12
DI_13	14	33	DO_13
DI_14	15	34	DO_14
DI_15	16	35	DO_15
DO.GND	17	36	DO.GND
DO.GND	18	37	DO.PWR/DI.COM
DO.PWR/DI.COM	19		

37-Pin Female D-Sub Connector

37-pin D-sub connector Pin-Assignment for I-8042W and I-87042W



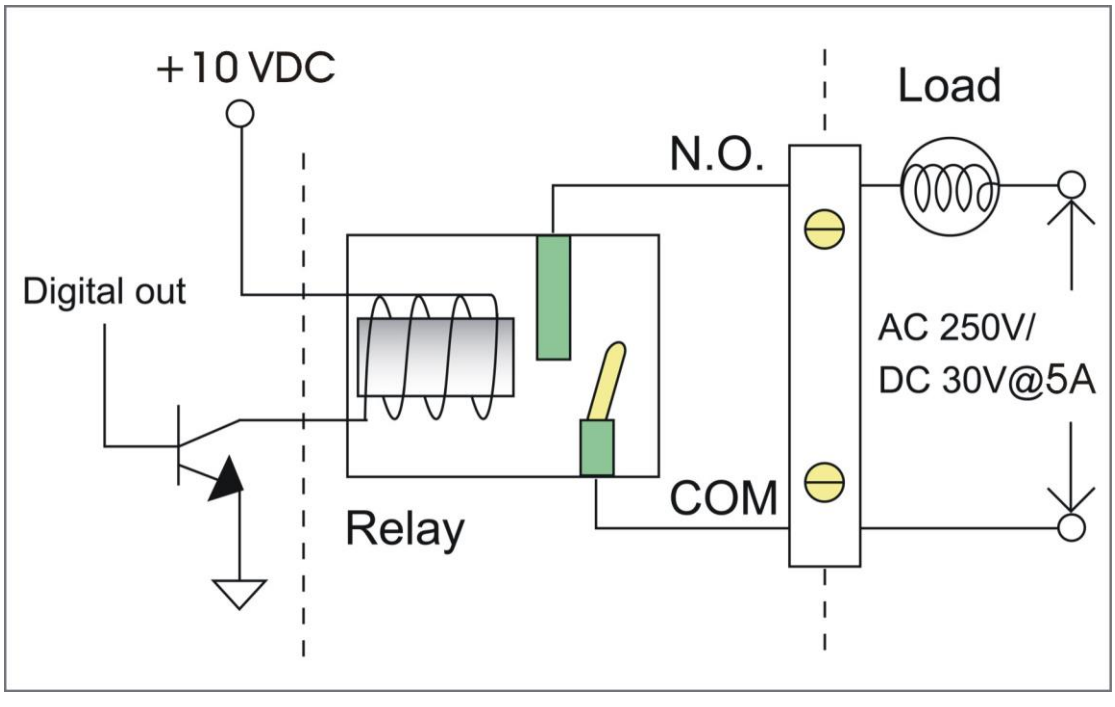


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1.5. Relay of LEDs Mapping

Relay Output	LEDs
CH_0	LED1
CH _1	LED2
CH _2	LED3
CH _3	LED4
CH _4	LED5
CH _5	LED6
CH _6	LED7
CH _7	LED8
CH _8	LED9
CH _9	LED10
CH _10	LED11
CH _11	LED12
CH _12	LED13
CH _13	LED14
CH _14	LED15
CH _15	LED16

1.6. Interface Circuit of the Relay



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