
DN-8K32R

User's Manual

1. Functional Description

The DN-8K32R is a 32-channel of Signal Relay Output Board, consisting of 32 form A relays for efficient programmable load switching. All connectors and functionalities are compatible with the I-8041 and I-87041 Open-collector output board.

The DN-8K32R has 33 of LED indicator functions; containing 32 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 ~ +30V DC.

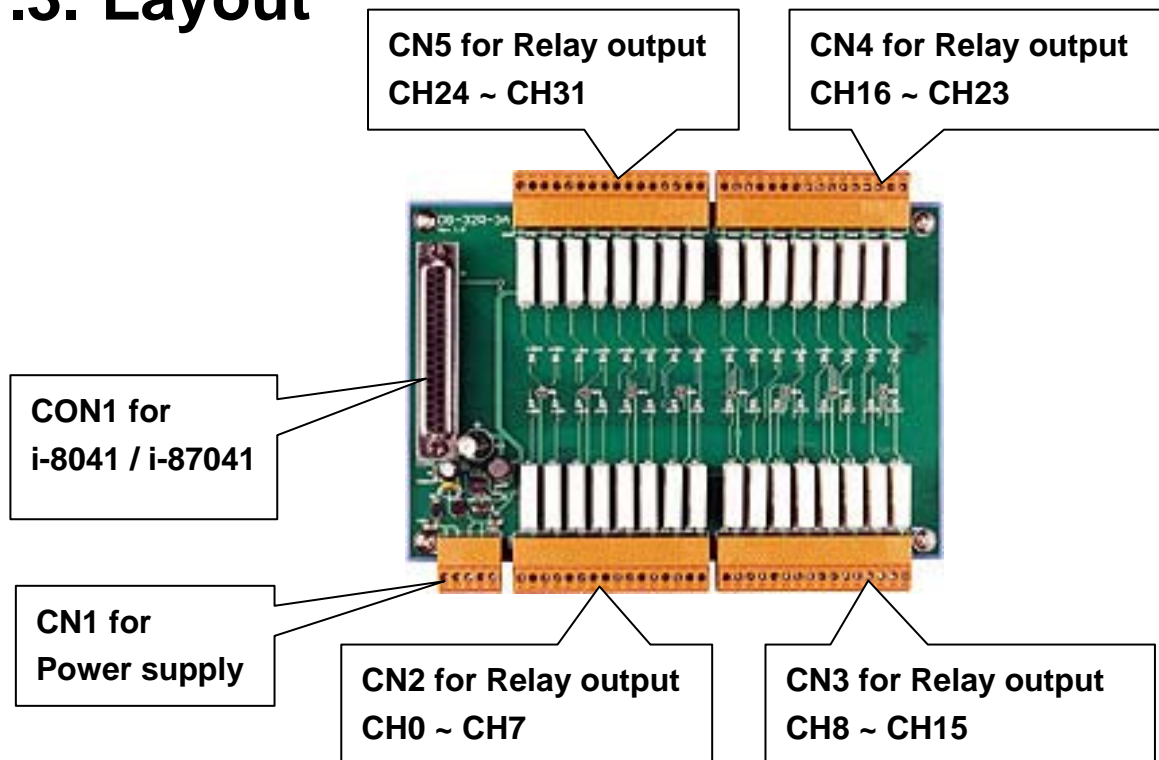
1.1. Features

- Form A Signal Relay
- The DN-8K32R accepts 37-pin connectors to control 32 form A relays for use with I-8041 and I-87041
- Each LED is displayed when the corresponding relay is activated
- Screw terminals for field wiring
- Power input range from +12 to +30V DC.
- Supports operating temperatures from -25 ~ +75°C
- DIN rail mount for industrial usage

1.2. Specification

- Contact Arrangement: SPST-NO (1 form A)
- Max. Switching Voltage: 125Vdc, 270Vac Rated
- Contact Current: 3A
- Max. Contact Current: 5A
- Max. Contact Capacity: 1250VA, 150W
- Operate Time (typical): 10ms
- Release Time (typical): 5ms
- Resistive load: 250V ac/30Vdc, 3A 100,000ops.Min (10 ops. / minute)
- Resistive load: 250V ac/30V dc, 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 ~ +85°C
- Humidity: 10% to 90%; no condensing
- Power input range from +12 to +30V DC.
- Power consumption: +24V @ 0.25A. Max
- Dimensions: 118mm x 174mm

1.3. Layout



1.5. Relay of LEDs Mapping

Digital Input	LEDs	Relay Output	LEDs
CH_0	LED1	CH_16	LED17
CH_1	LED2	CH_17	LED18
CH_2	LED3	CH_18	LED19
CH_3	LED4	CH_19	LED20
CH_4	LED5	CH_20	LED21
CH_5	LED6	CH_21	LED22
CH_6	LED7	CH_22	LED23
CH_7	LED8	CH_23	LED24
CH_8	LED9	CH_24	LED25
CH_9	LED10	CH_25	LED26
CH_10	LED11	CH_26	LED27
CH_11	LED12	CH_27	LED28
CH_12	LED13	CH_28	LED29
CH_13	LED14	CH_29	LED30
CH_14	LED15	CH_30	LED31
CH_15	LED16	CH_31	LED32

1.6. Interface Circuit of the Relay

