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

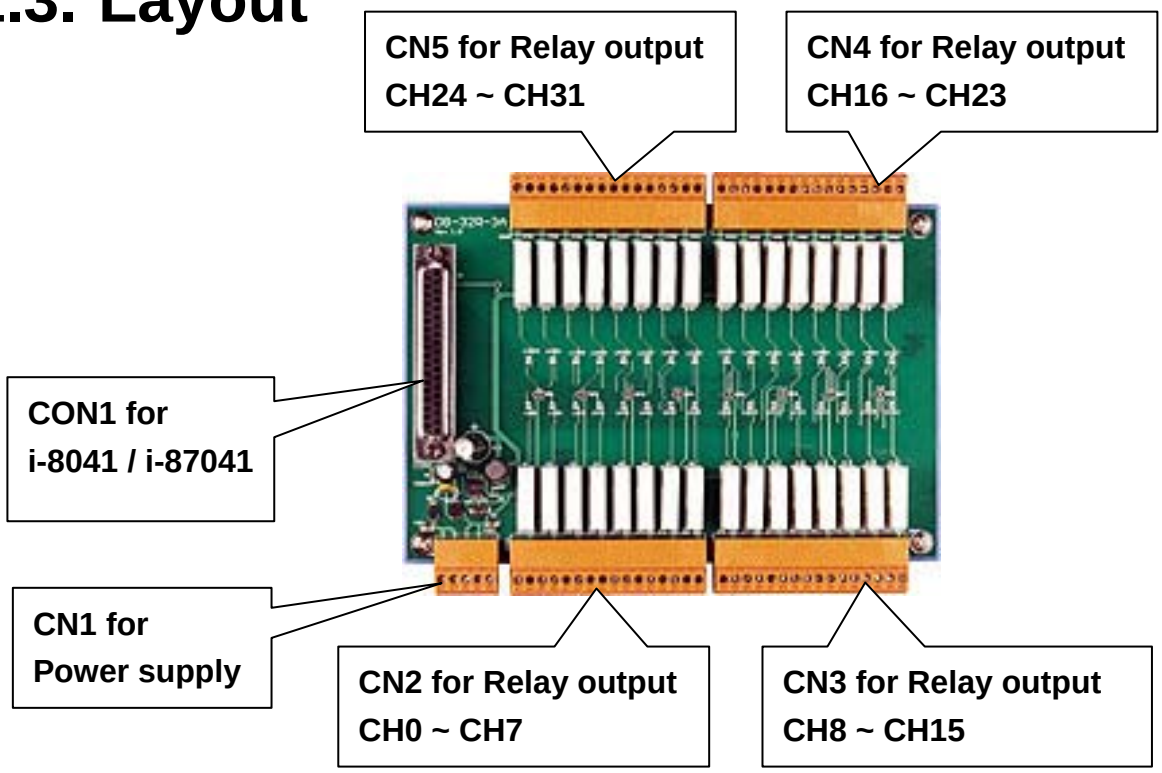
- Form A Signal Relay
- The DN-8K32R accepts 37-pin connectors to control 32 form A relays for use with I-8041 and I-87041
- Each LED is displayed when the corresponding relay is activated
- Screw terminals for field wiring
- Power input range from +12 to +30V DC.
- Supports operating temperatures from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

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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



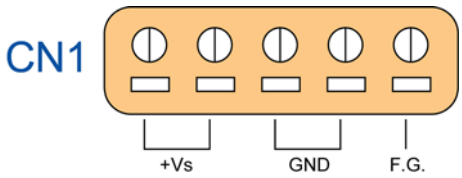
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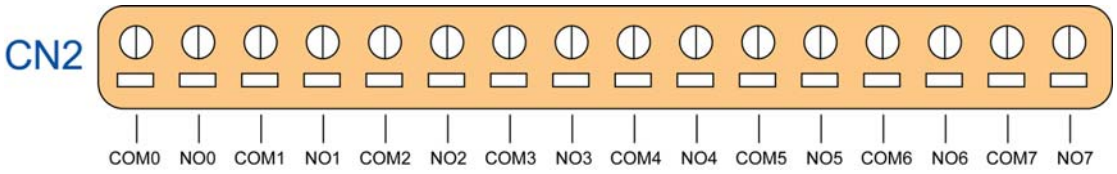
1.4. Pin Assignment

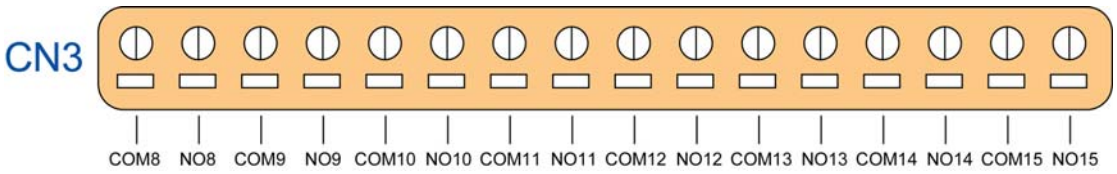
Pin Assignment Name	Terminal No.		Pin Assignment Name
Ext.PWR	19	37	Ext.PWR
Ext.GND	18	36	Ext.GND
Ext.GND	17	35	DO_31
DO_15	16	34	DO_30
DO_14	15	33	DO_29
DO_13	14	32	DO_28
DO_12	13	31	DO_27
DO_11	12	30	DO_26
DO_10	11	29	DO_25
DO_9	10	28	DO_24
DO_8	09	27	DO_23
DO_7	08	26	DO_22
DO_6	07	25	DO_21
DO_5	06	24	DO_20
DO_4	05	23	DO_19
DO_3	04	22	DO_18
DO_2	03	21	DO_17
DO_1	02	20	DO_16
DO_0	01		

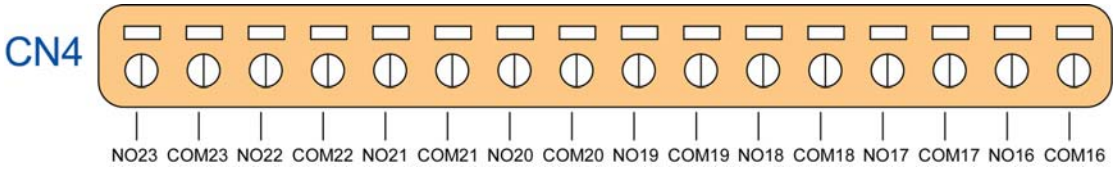
37-pin D-sub connector

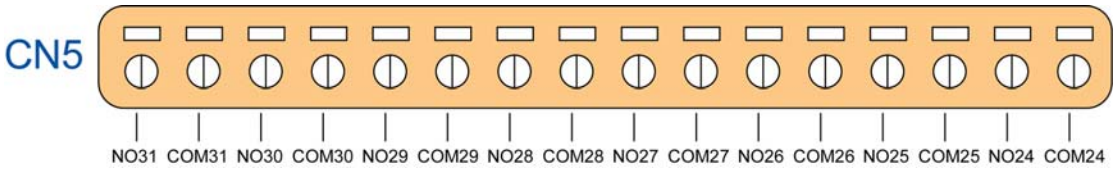
Pin-Assignment for i-8041 and i-87041









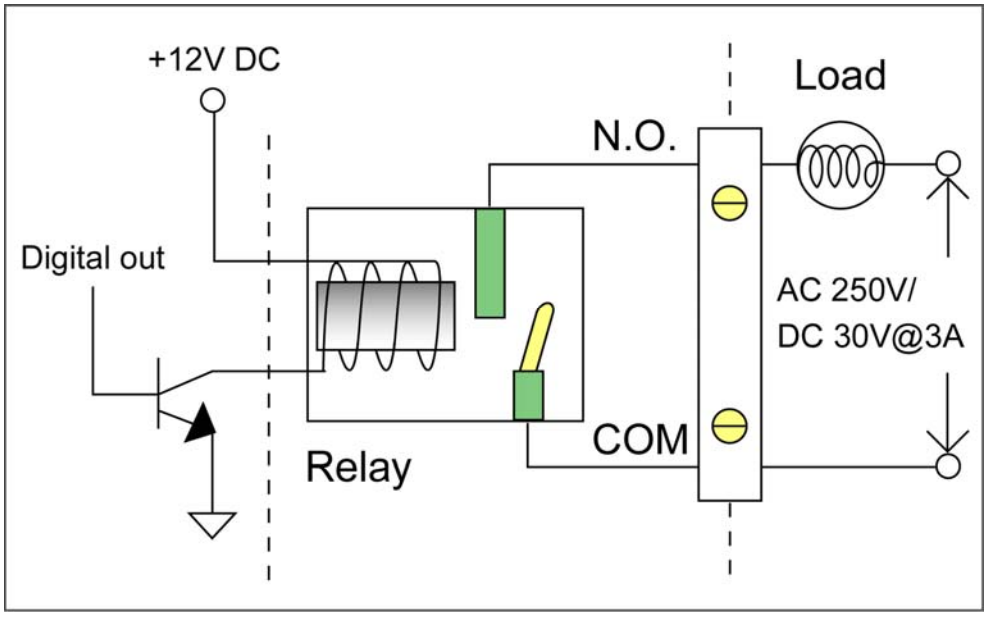


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1.5. Relay of LEDs Mapping

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



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