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GENERAL FEATURES

- Ability to operate in the range of 9-32 V DC.
- Main and EMG feeds are selected automatically.
- 12 led navigation lights can be controlled **Manually, NLCP, PLC** or other industrial devices.(Via **Modbus RTU** communication)
- The navigation light output for each channel is 2.5 A.
- The status of each navigation beacon can be displayed with led.
- The alarm is activated when a short circuit or an open circuit occurs at one or more of the navigation light outputs.
- The alarm relay output is 5 A.
- Backup Mode feature is available. (.(Backup Mode is used if a navigation light is desired to be run as a backup by using led lamps connected to two separate channels. DIP switch “6” pin number should be set to “ON” position. 6 navigation lights can be controlled by 12 led lamps.)
- Spring Button feature is available. (When DIP switch “7” pin is set to “ON” position, navigation light can be controlled by using spring switch on Mimic Panel.)

SETUP

Attention: When connecting any communication cable to the device or changing the DIP Switch position, make sure that the power is disconnected.

CONTROL WITH MIMIC PANEL:

- Connect the **Main** and **Emg** power cables of the **NLCC.V02**.

- Connect the navigation lights to the corresponding navigation light outputs. (Navigation lights can be led or flemish lamps.)

- Switch all pins of the DIP Switch to the "OFF" position.

- Connect the navigation light indicator LEDs to the corresponding led outputs in the **Channel Status** section. (The voltage of the **Channel Status** outputs is DC 9-32 V and the **Common** ends are (+) and the **Light** ends are (-).)

- **Alarm Relay** Connection; Connect one end of the buzzer to the external voltage input and make the output of the external voltage to be connected to one end of the Alarm Relay, the other end of the buzzer to be connected to the other end of the Alarm Relay.

- **Alarm Relay Reset** connection; One end of the spring-loaded button is connected to one of the Alarm Relay Reset outputs, and the other end of the button is connected to the other of the Alarm Relay Reset outputs.

- **Test** Connection; Make one end of the spring button to be connected to the **Common** end and the other end of the button to be connected to the Test end.

- **On-Off Switches** connection; Connect one end of the permanent switch to the corresponding **On-Off Switch** end and the other end to one of the **Common** ends.(When the “Spring Button” feature is activated, it can be used with a spring switch.)

CONTROL WITH NLCP:

- Connect the **Main** and **Emg** power cables of the **NLCC.V02**.
- Connect **NLCP's Main** and **Emg** power cables.
- Connect the navigation lights to the corresponding navigation light outputs. (Navigation lights can be led lamps.)
- **Connect** the **Tx** end of **NLCP** to the **Tx** end of **NLCC V02** and the **Rx** end of **NLCP** to the **Rx** end of **NLCC V02**. (Cable length; maximum 30 mt)
- Set the DIP Switch on the **NLCC.V02** to the “**ON**” position of **pin 1** and **pin 8**.

!!!! Make sure the power is off before changing the Dip Switch Position.

- Connect the terminal block outputs of the navigation light. If your navigation light is **LED**, please consider the polarity outputs ‘+’, ‘-’.

Note: The connection method of the installation is shown in Picture-3 and in the sample connection diagrams.

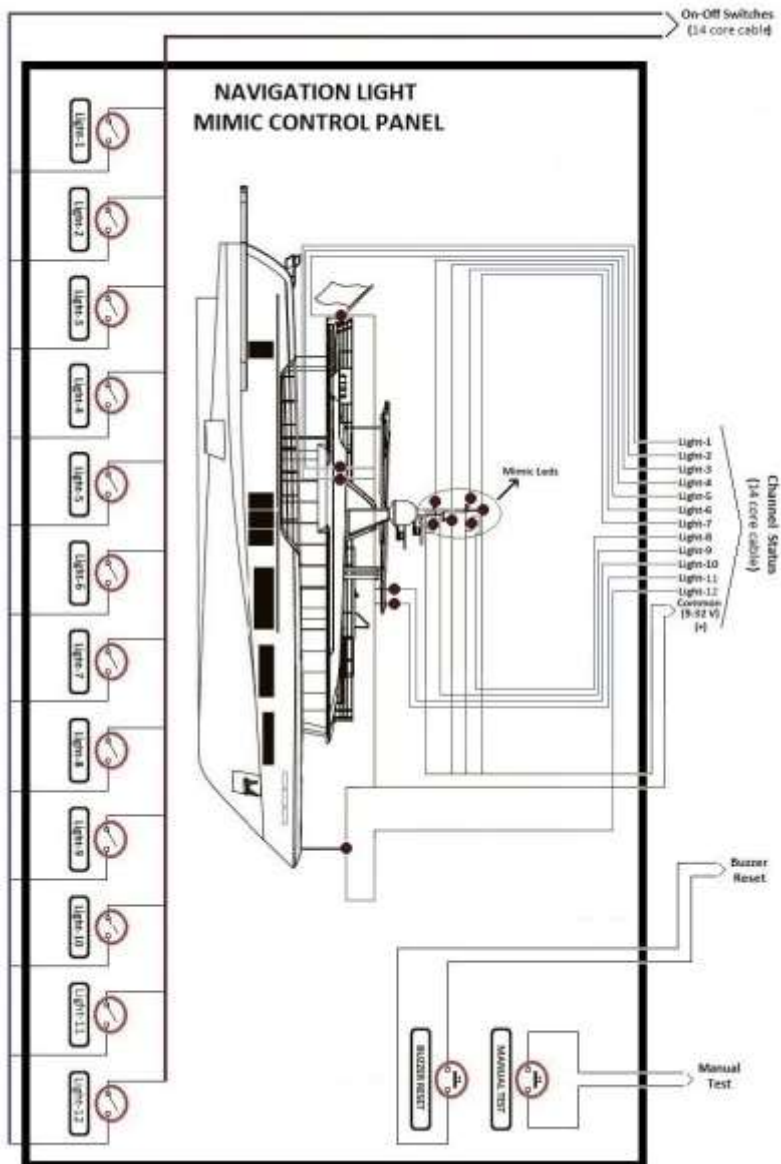
CONTROL WITH PLC or OTHER INDUSTRIAL DEVICES:

- Connect the **Main** and **Emg** power cables of the **NLCC.V02**.
- Connect the navigation lights to the corresponding navigation light outputs. (Navigation lights can be led lamps.)
- Connect the **Tx** end of the **PLC/Industrial Device** to the **Tx** end of the **NLCC.V02** and the **Rx** end of the **PLC/Industrial Device** to the **Rx** end of the **NLCC.V02** (Cable length; maximum 30 mt)
- Set the **DIP Switch** on the **NLCC.V02** to the **“ON”** position of **pin 1** and **pin 8**.

!!!! Make sure the power is off before changing the Dip Switch Position.

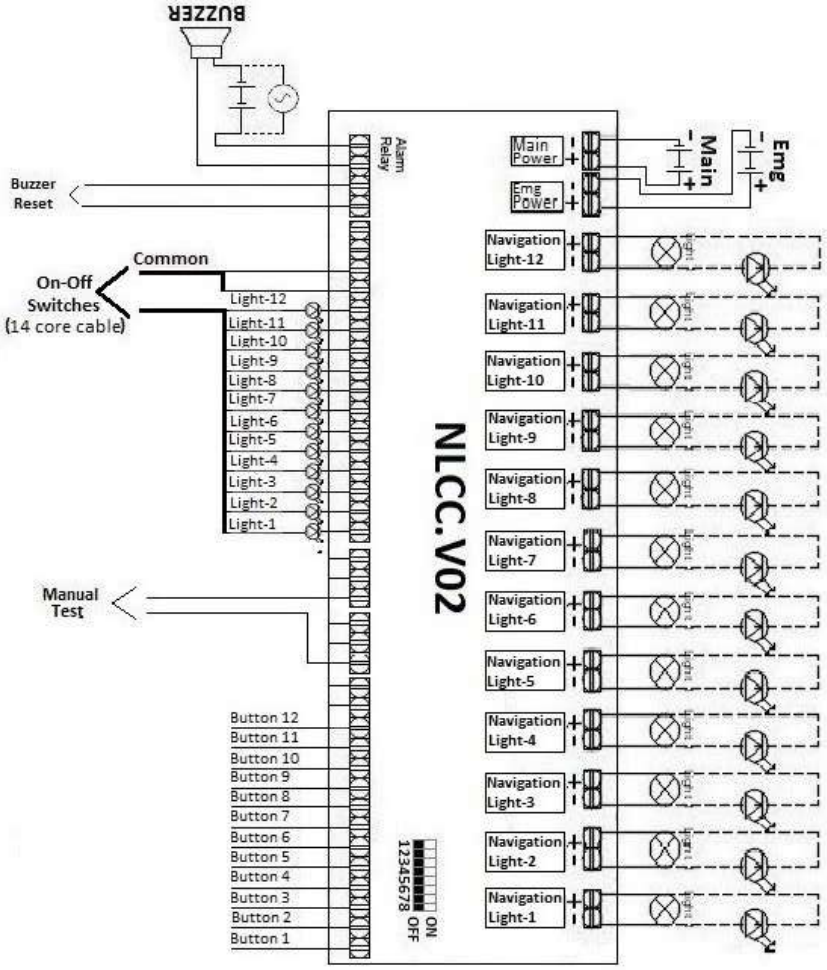
- Connect the terminal block outputs of the navigation light. If your navigation light is LED, please consider the polarity outputs **“+”**, **“-”**.

Note: The connection method of the installation is shown in Picture-4 and in the sample connection diagrams

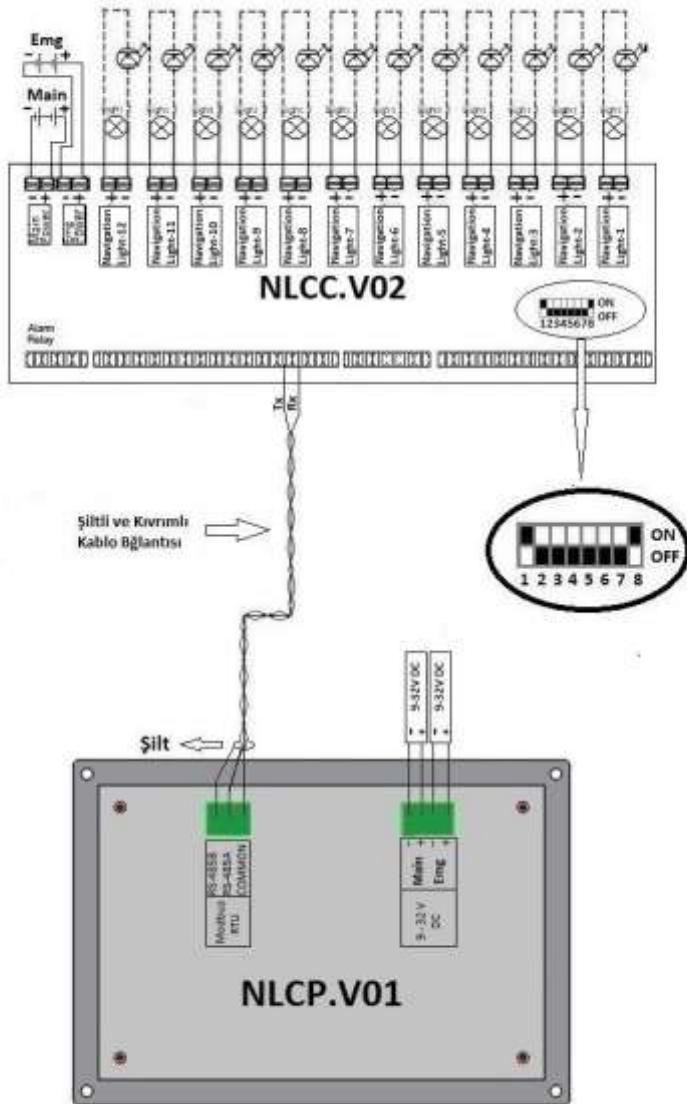


Picture_1 : Mimic Panel Example Connection – 1

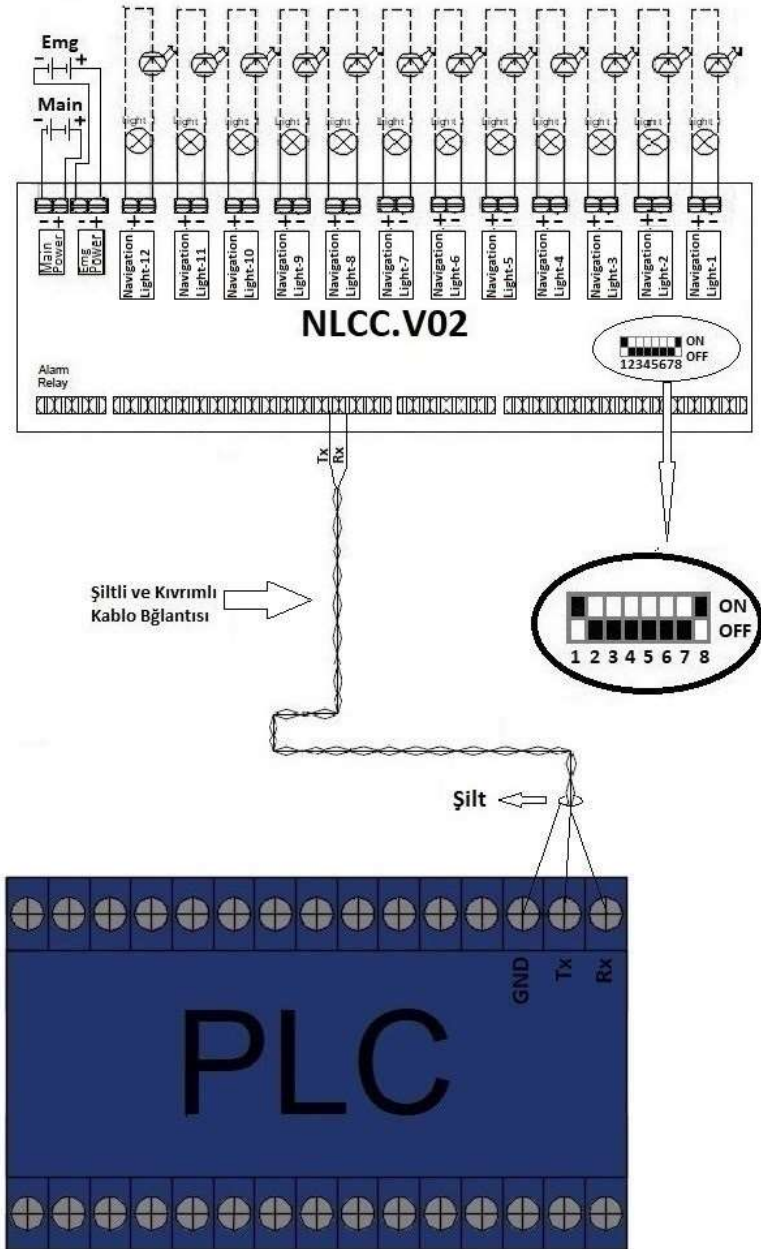
SEYİR FENERLERİ/NAVIGATION LIGHTS



Picture_2: Mimic Panel Example Connection – 2



Picture_3: NLCP Connection – 1



Picture_4: PLC Connection – 1

MODBUS RTU REGISTER TABLES

Table-1:

Register Address	Register Name	Register Type	Görevi
41	Control of Lamps	Integer	Writing
42	1. Lamp Status	Integer	Reading
43	2. Lamp Status	Integer	Reading
44	3. Lamp Status	Integer	Reading
45	4. Lamp Status	Integer	Reading
46	5. Lamp Status	Integer	Reading
47	6. Lamp Status	Integer	Reading
48	7. Lamp Status	Integer	Reading
49	8. Lamp Status	Integer	Reading
50	9. Lamp Status	Integer	Reading
51	10. Lamp Status	Integer	Reading
52	11.Lamp Status	Integer	Reading
53	12.Lamp Status	Integer	Reading
54	Lamp-1 Counter	Integer	Reading
55	Lamp-2 Counter	Integer	Reading
56	Lamp-3 Counter	Integer	Reading
57	Lamp-4 Counter	Integer	Reading
58	Lamp-5 Counter	Integer	Reading
59	Lamp-6 Counter	Integer	Reading

60	Lamp-7 Counter	Integer	Reading
61	Lamp-8 Counter	Integer	Reading
62	Lamp-9 Counter	Integer	Reading
63	Lamp-10 Counter	Integer	Reading
64	Lamp-11 Counter	Integer	Reading
65	Lamp-12 Counter	Integer	Reading
66	Power Status	Integer	Reading
67	Local/Remote Status	Integer	Reading

Tablo-2:

Lamp Control Registers	Lamp Outputs
Lights_Control_bit_0	Light_1_Output_Relay
Lights_Control_bit_1	Light_2_Output_Relay
Lights_Control_bit_2	Light_3_Output_Relay
Lights_Control_bit_3	Light_4_Output_Relay
Lights_Control_bit_4	Light_5_Output_Relay
Lights_Control_bit_5	Light_6_Output_Relay
Lights_Control_bit_6	Light_7_Output_Relay
Lights_Control_bit_7	Light_8_Output_Relay
Lights_Control_bit_8	Light_9_Output_Relay
Lights_Control_bit_9	Light_10_Output_Relay
Lights_Control_bit_10	Light_11_Output_Relay
Lights_Control_bit_11	Light_12_Output_Relay

Note:

- 42, 43, 44, 45, 46, 47, 48, 49, 50, 51 any one or more of the numbered registers; If "0", the corresponding lamp is not lit, if "1", the corresponding lamp is lit, if "2", the corresponding lamp is defective.
- if register No. 62 is "0", the power supply is provided from Main, and "1" is provided from Emg.
- if the register number 63 is "0", the device is in the local position, and if "1", the device is in the remote position.

Power Led Error:

- Check the power cable entries.

Navigation Light(s) Error:

- Check the navigation light terminal output connection.
- Check the On-Off Switch terminal connections.

Indicator Led Error:

- Check the LED outputs.
- Check the LEDs with the test button.

Buzzer Error:

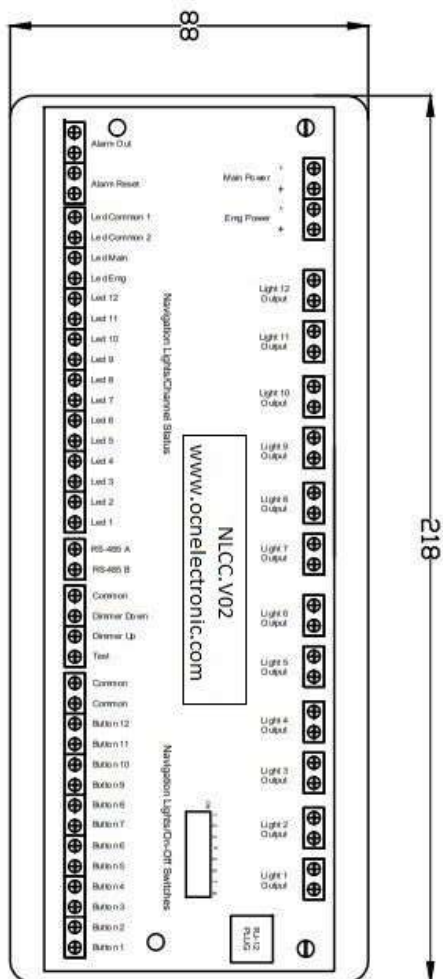
- Check the Alarm Relay connection.
- Check the buzzer with the test button.

Communication error with PLC or Other Industrial Devices:

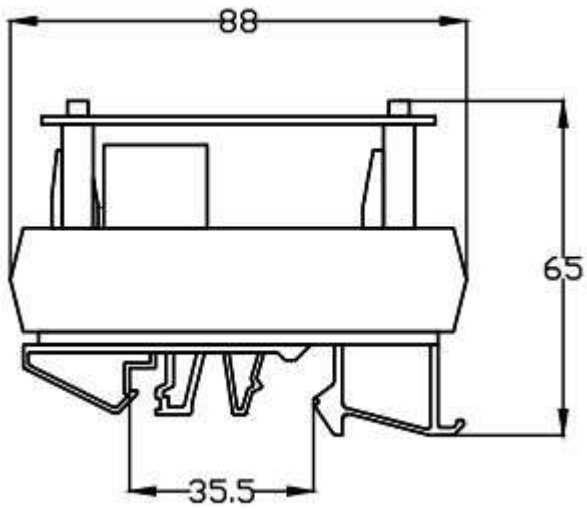
- Check the dip switch "1" and "8" is in the "ON" position.
- Check the Tx Rx connections of the Modbus RTU.
- Check the NLCP or Modbus RTU connection of the Industrial Device.
- Check the power supply of the NLCP or Industrial Device.

DIMENSIONS

Top View :



Side view:



Notes;

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