

4 Door Undercounter (Street Side)



Power Supply: CN 10

24 Vac/dc (+/- 10%) 50/60 Hz
Max power consumption: 25 VA

Analog Input: CN 5

AIL 1 : Cold Rail Temp
AIL 2 : Left Refrigerate Temp
AIL 3 : Left Refrig. Evap Temp
AIL 4 : Right Refrigerate Temp
AIL 5 : Right Refrig. Evap Temp
AIL 7 : Discharge Pressure
AIL 8 : Suction Pressure

Digital Input: CN 3 & CN 4

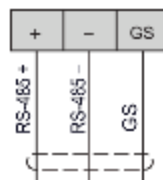
DIL 1 : Left Door 1
DIL 2 : Left Door 2
DIL 3 : Right Door 1
DIL 4 : Right Door 2

Digital Output: CN 9 & CN 8 & CN 7 & CN 6

DOL 1 : Cold Solenoid
DOL 2 : Left Refrigerate Solenoid
DOL 3 : Right Refrigerate Solenoid
DOL 4 : Compressor Out
DOL 5 : ---
DOL 6 : ---
DOL 7 : Street Side Buzzer
DOL 8 : Curb Side Buzzer

RS485-2: CN 1

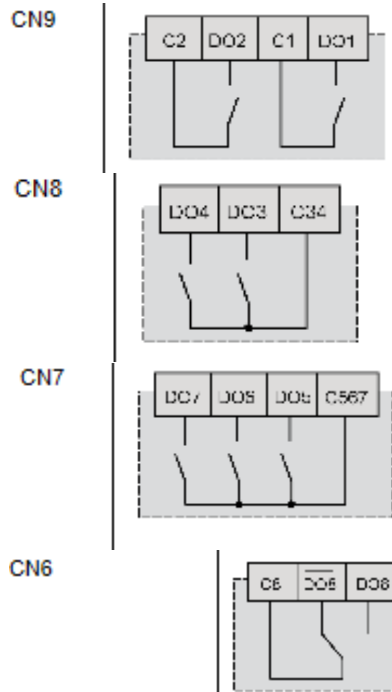
Modbus Slave: Connect (+ - GS) to **Curb Side** RS485-1 CN19



Analog Output: CN 2

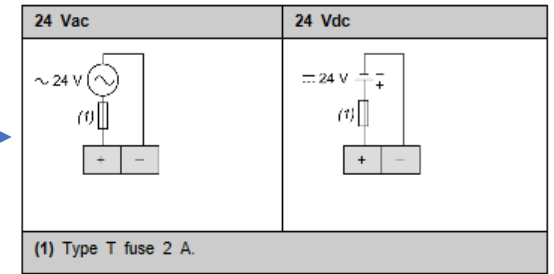
AOL 1 : Compressor AO

4 Door Undercounter (Street Side)

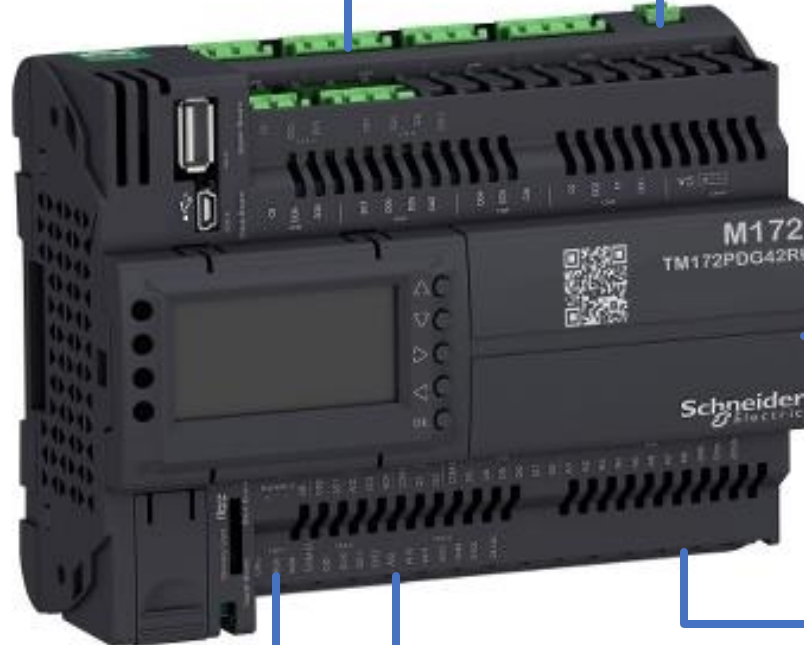


CN 9, CN 8, CN 7, CN 6
Terminal Digital Output

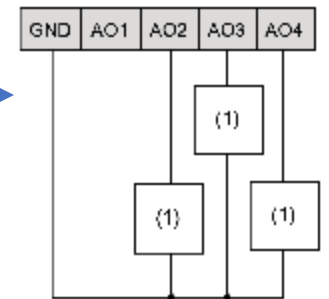
Power supply wiring diagram:



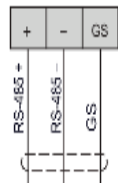
CN 10 Terminal Power Supply



CN 2 Terminal
Analog Output

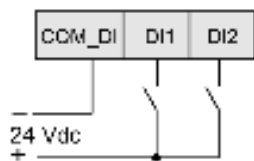


RS485-2: CN 1
Modbus Slave:
Connect (+ - GS) to
Curb Side RS485-1
CN19

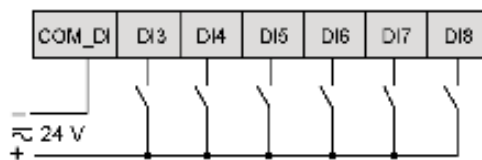


***USE External Power Supply
for Digital Input**

CN 3 Terminal
Digital Input
Fast

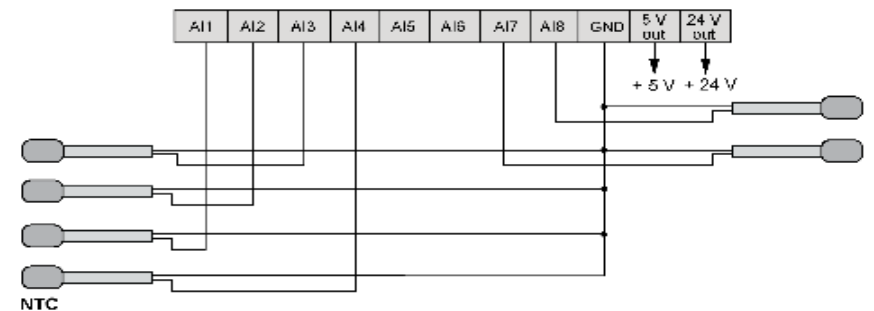


CN 4 Terminal
Digital Input
Regular



CN 5 Terminal
Analog Input

TM172...28... / TM172...42... CN5 NTC input connection:



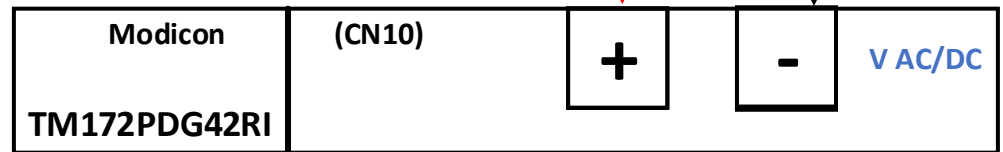
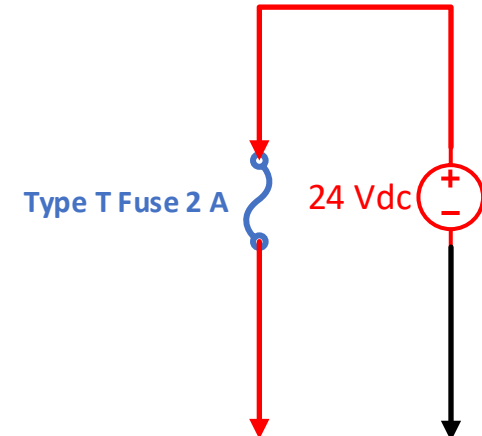
Power Supply

Power Supply

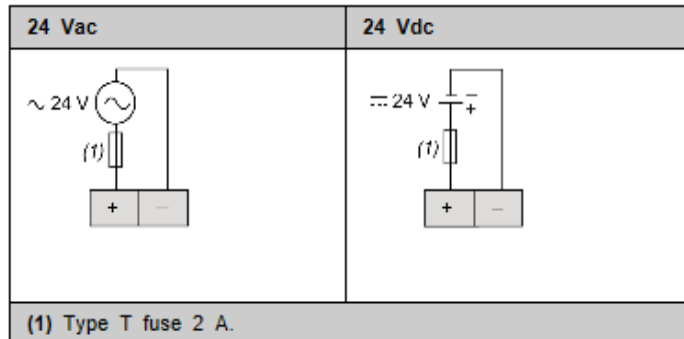
Controllers and Expansion Modules Power Supply

References	Power supply characteristics		Maximum power consumption
TM172P•G07R controller	Isolated	24 Vac (+/- 10 %) - 50/60 Hz	20 VA
		20...38 Vdc	10 W
TM172P•G18• / TM172O•M18R controllers	Isolated	24 Vac (+/- 10 %) - 50/60 Hz	21 VA
		20...38 Vdc	11 W
TM172P••28•I / TM172O••28R controllers	Isolated	24 Vac (+/- 10 %) - 50/60 Hz	23 VA
		20...38 Vdc	12 W
TM172P••42•I / TM172O••42R controllers	Isolated	24 Vac (+/- 10 %) - 50/60 Hz	25 VA
		20...38 Vdc	14 W
TM172P••28• / TM172P••42• controllers	Non-isolated	24 Vac (+/- 10 %) - 50/60 Hz	35 VA
		20...38 Vdc	15 W
TM172E12R expansion module	Non-isolated	24 Vac (+/- 10 %) - 50/60 Hz	20 VA
		20...38 Vdc	10 W
TM172E28R expansion module	Non-isolated	24 Vac (+/- 10 %) - 50/60 Hz	24 VA
		20...38 Vdc	15 W

***Refer to Hardware Guide**

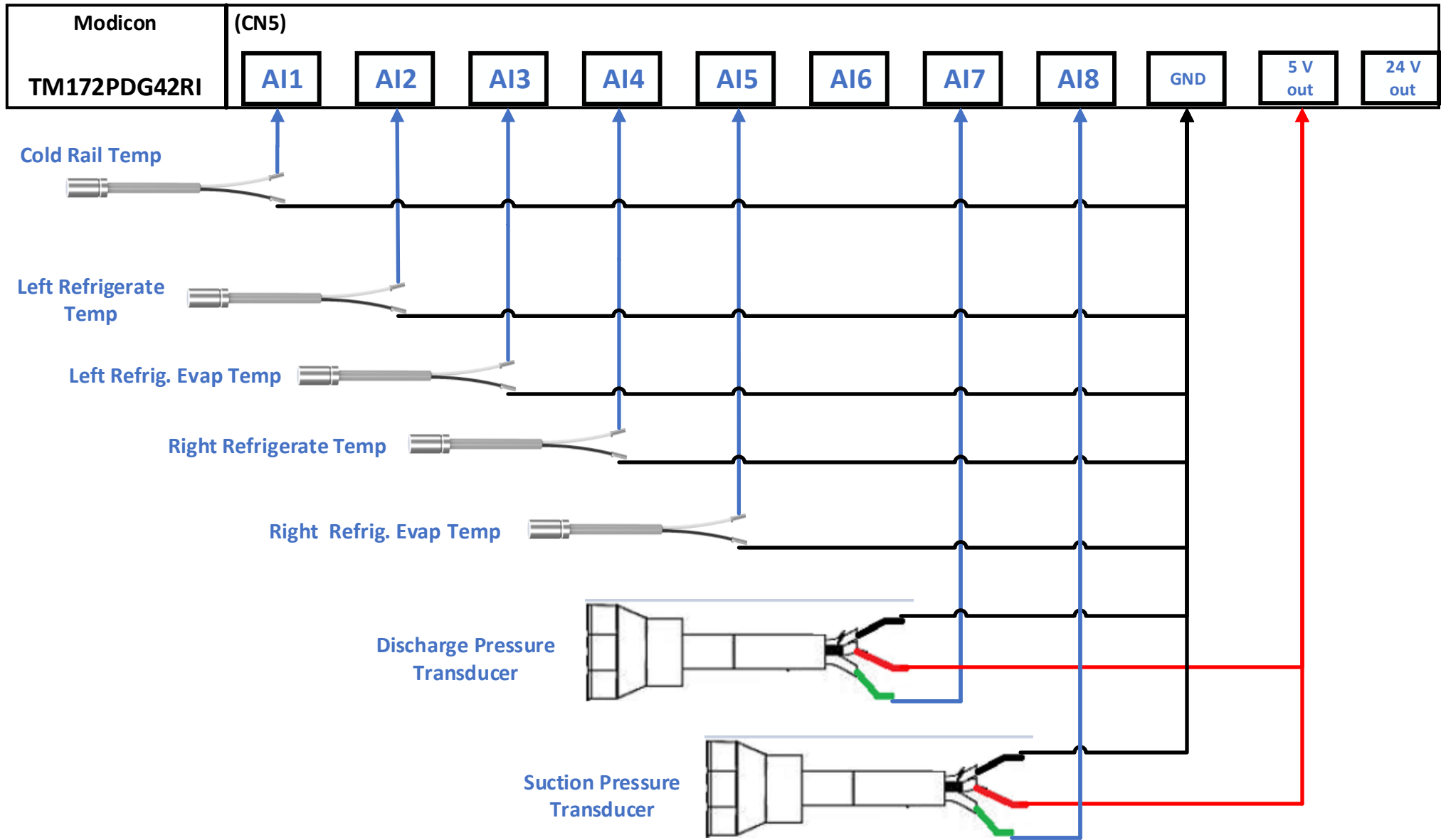


Power supply wiring diagram:



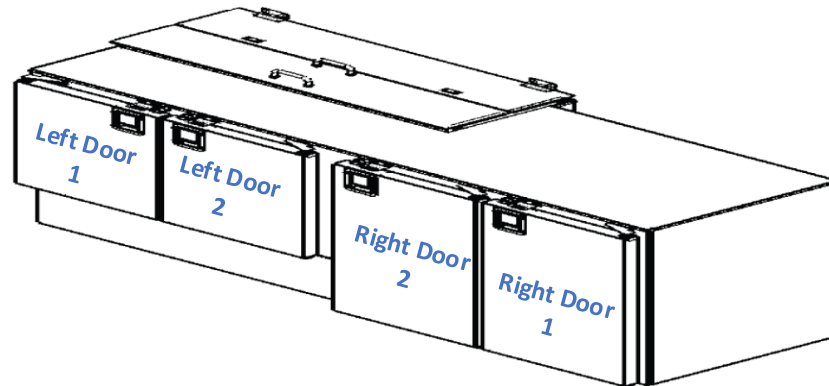
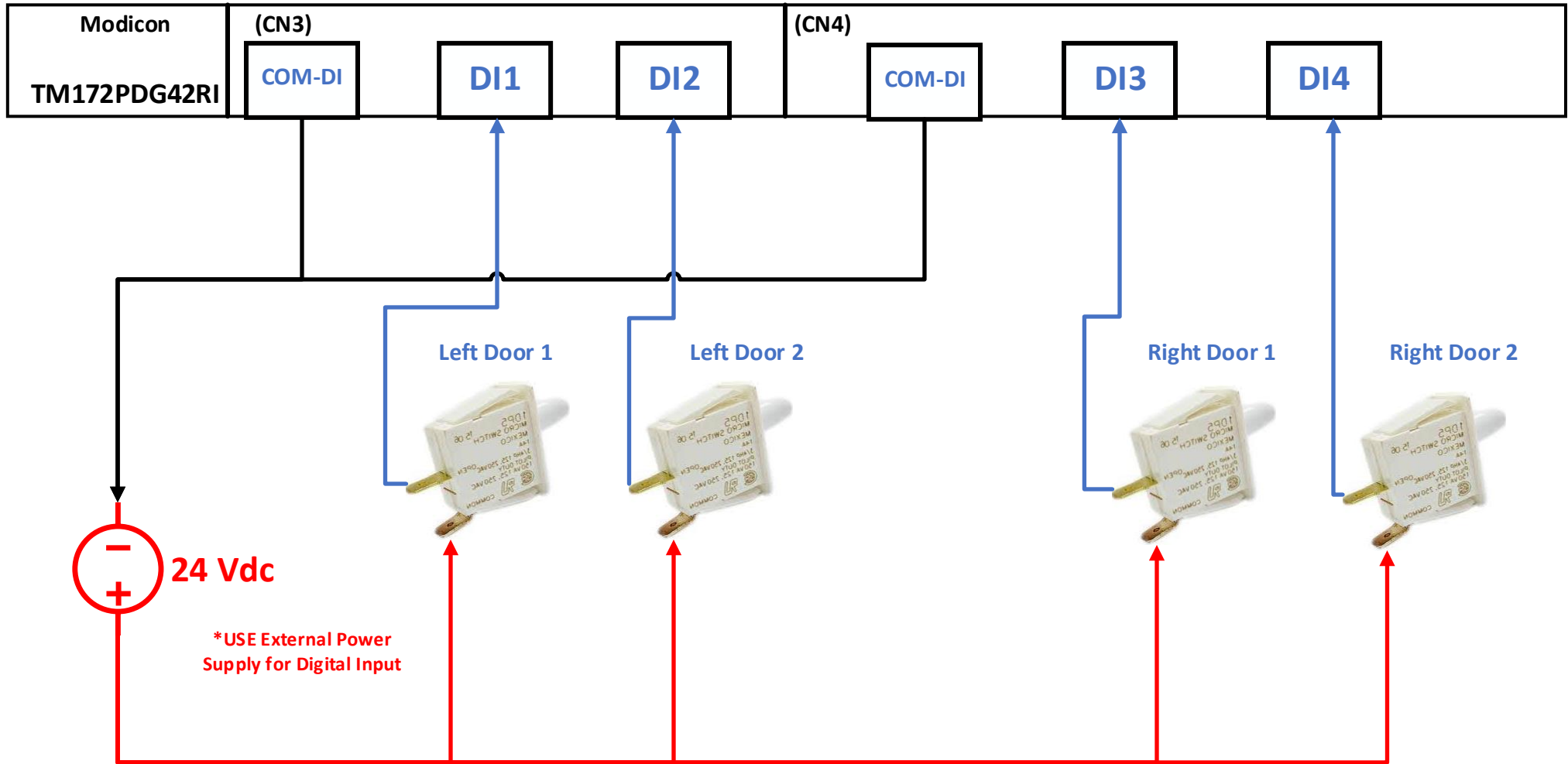
Pitch of the terminal block	Cabling length
3.50 mm (0.14 in.)	10 m (32.8 ft)

Analog Input

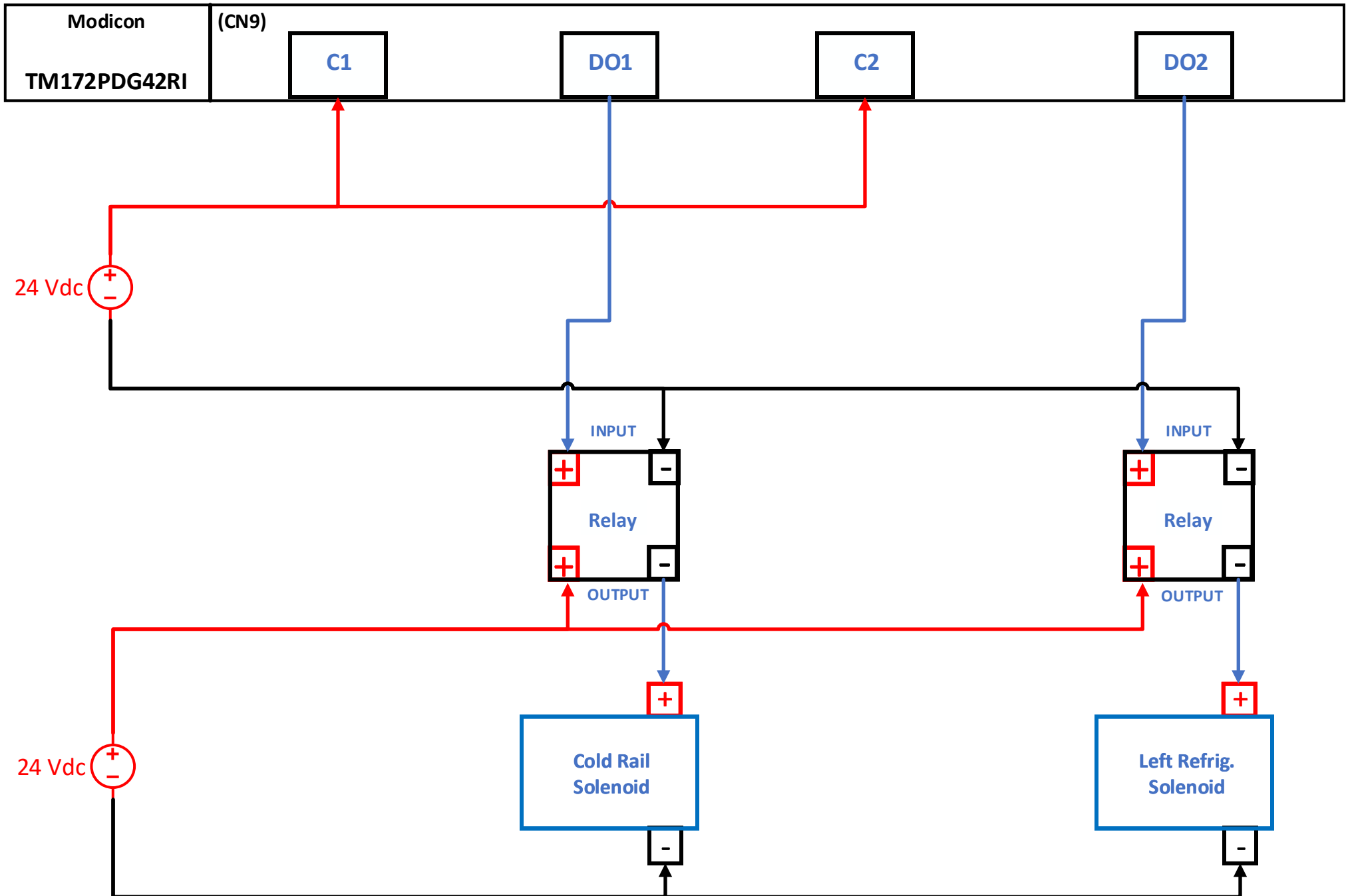


CABLE WIRE # DESIGNATION	
WIRE COLOR	FUNCTION
RED	Vs
BLACK	GND
GREEN	Vout

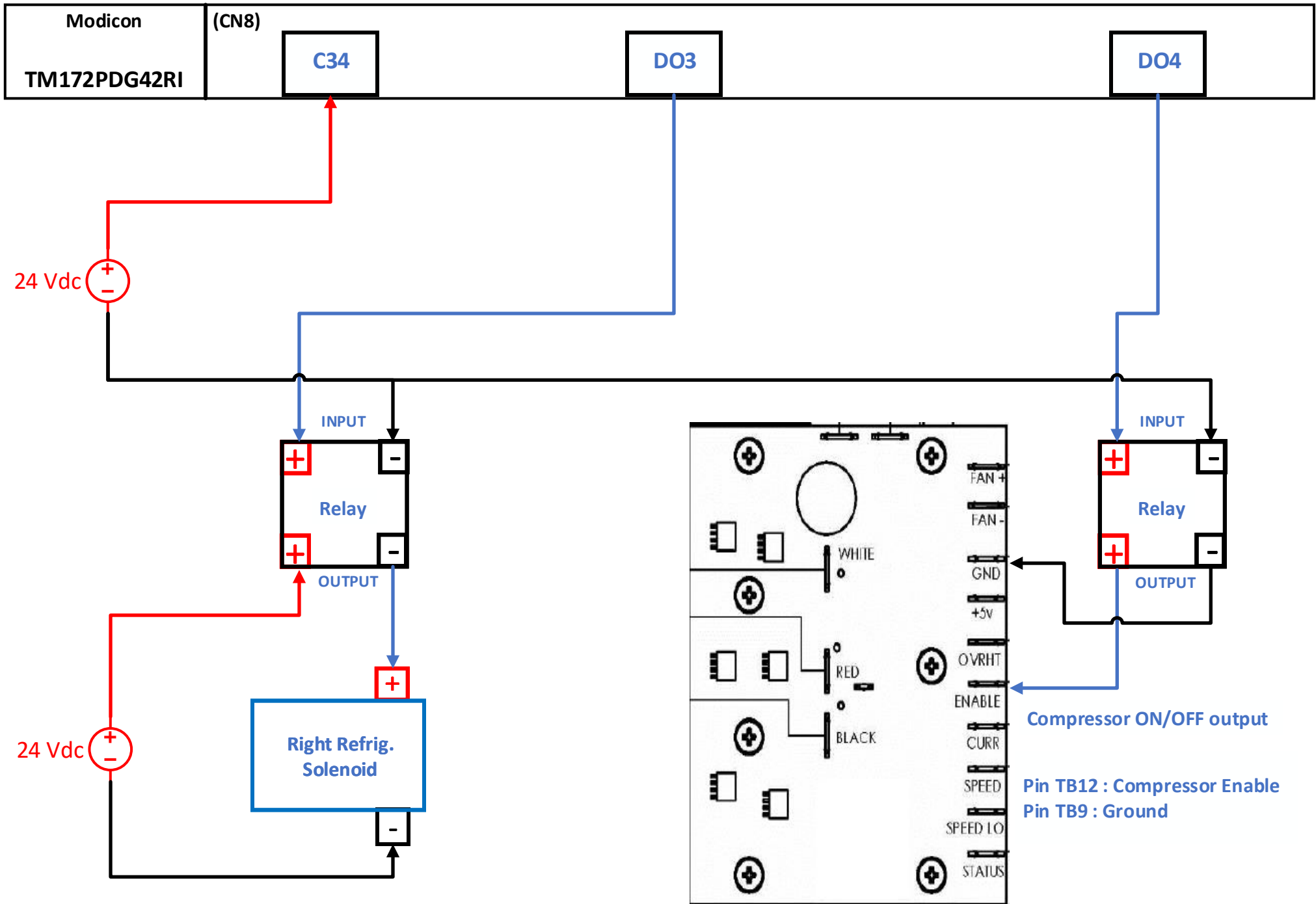
Digital Input



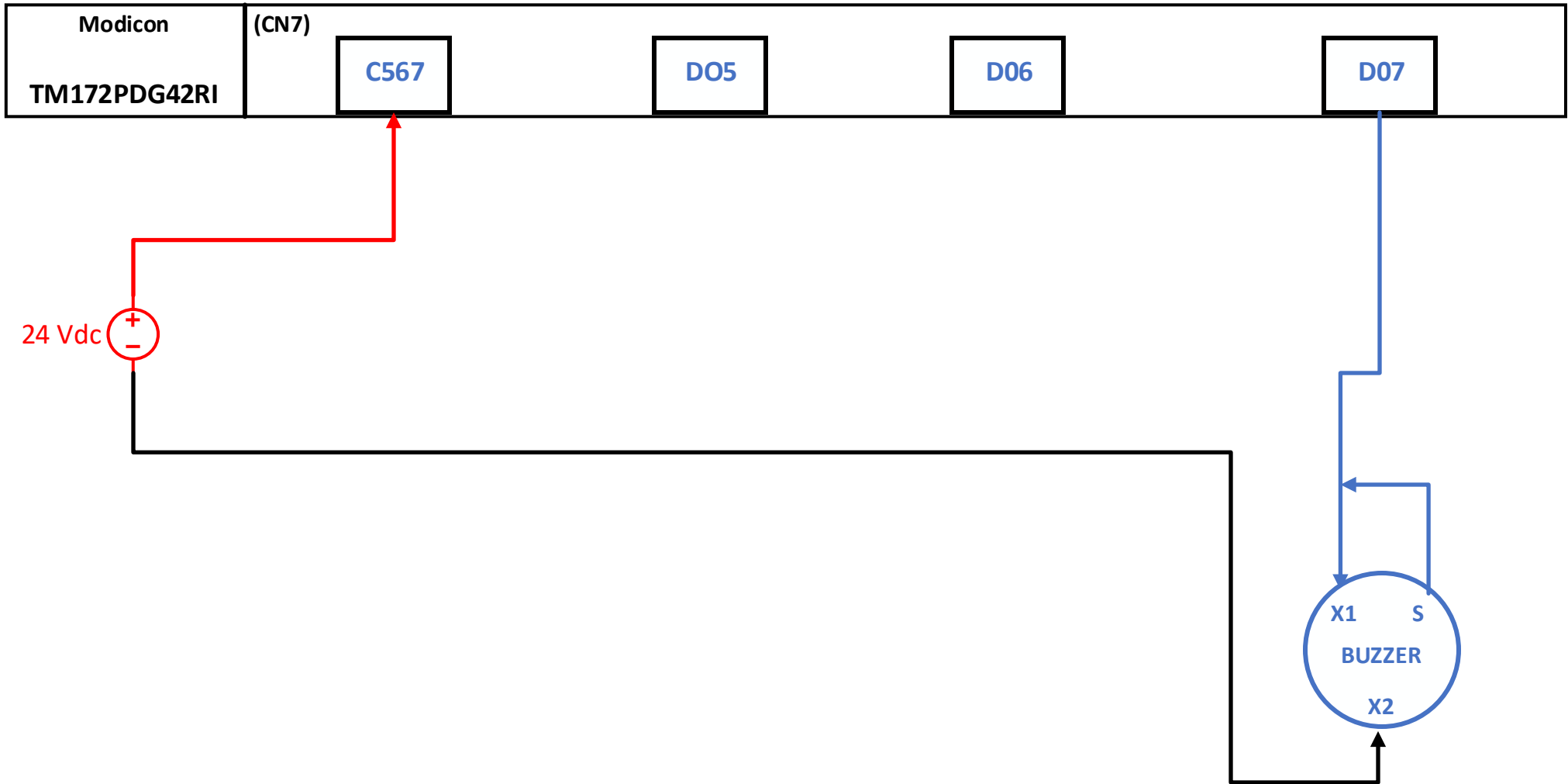
Digital Output



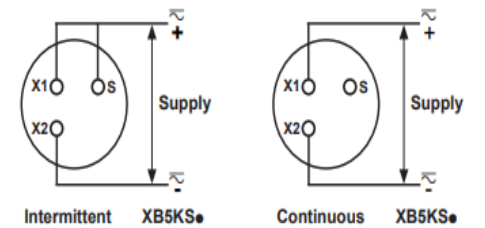
Digital Output



Digital Output

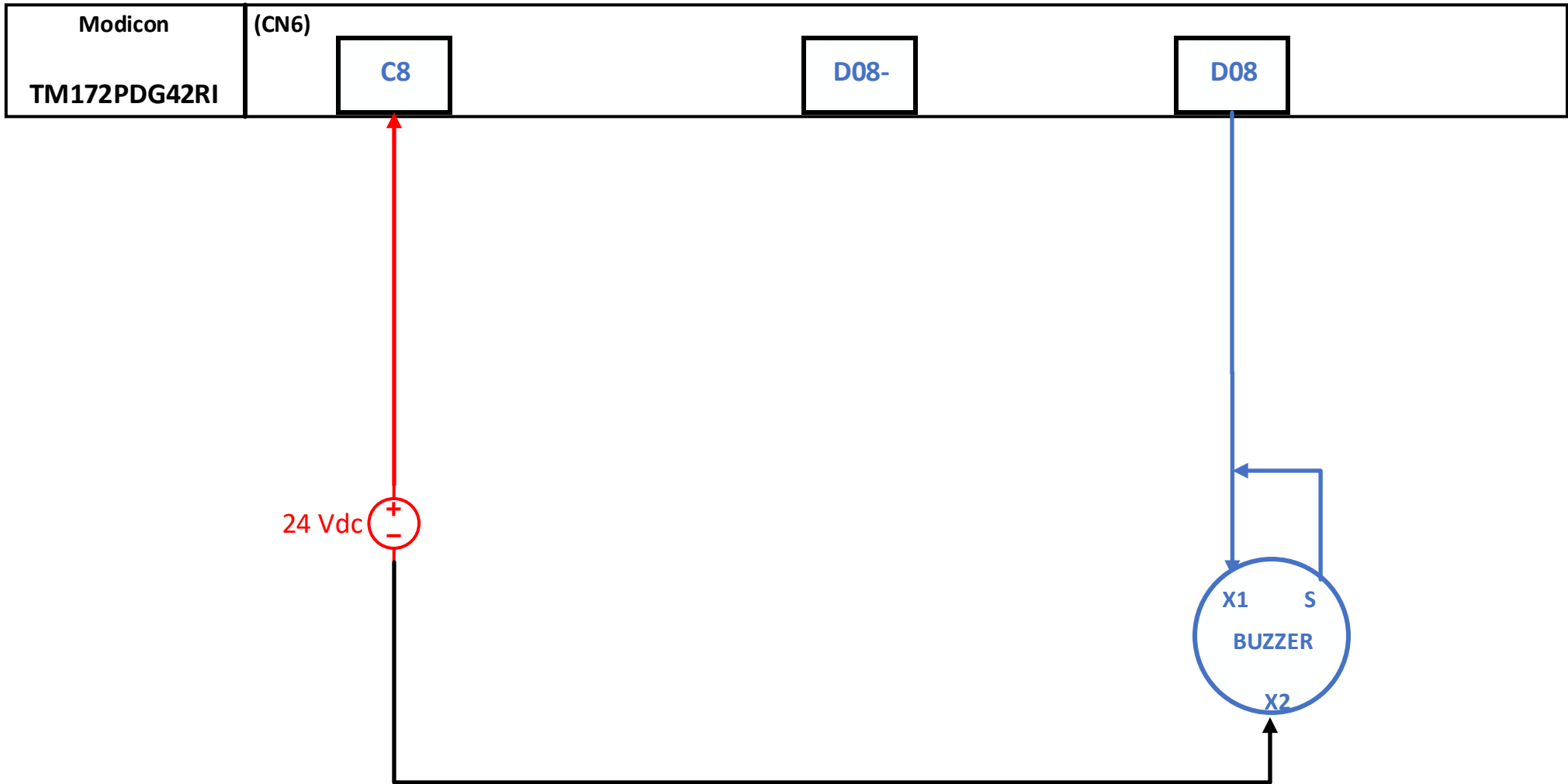


Street Side Buzzer

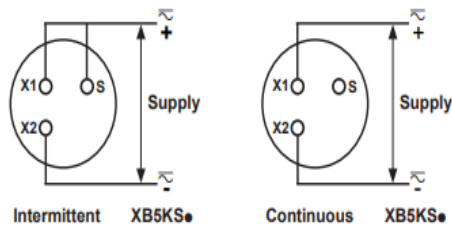


Buzzer Details

Digital Output



Curb Side Buzzer

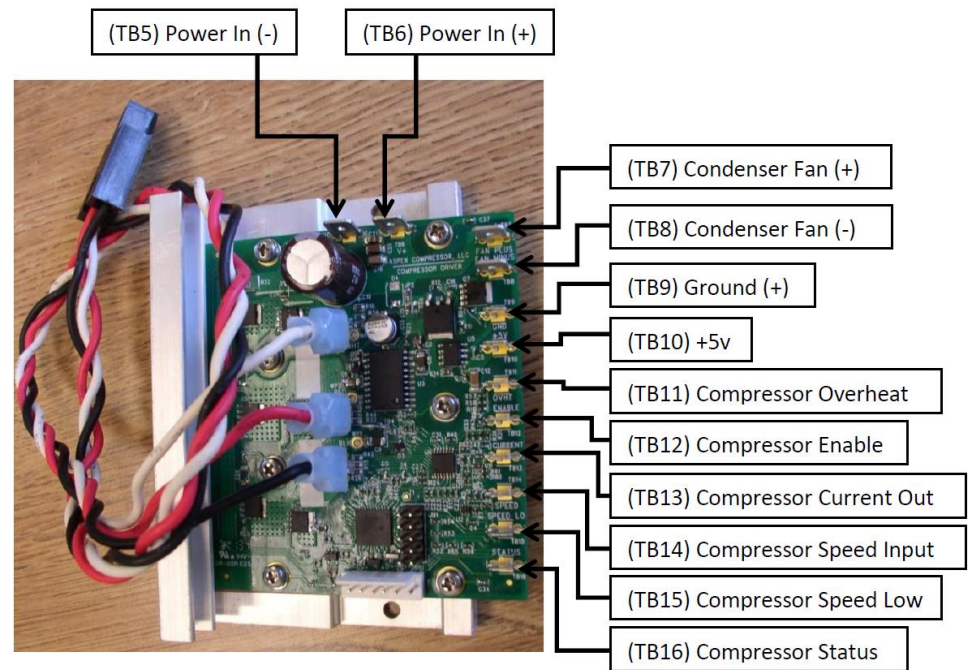
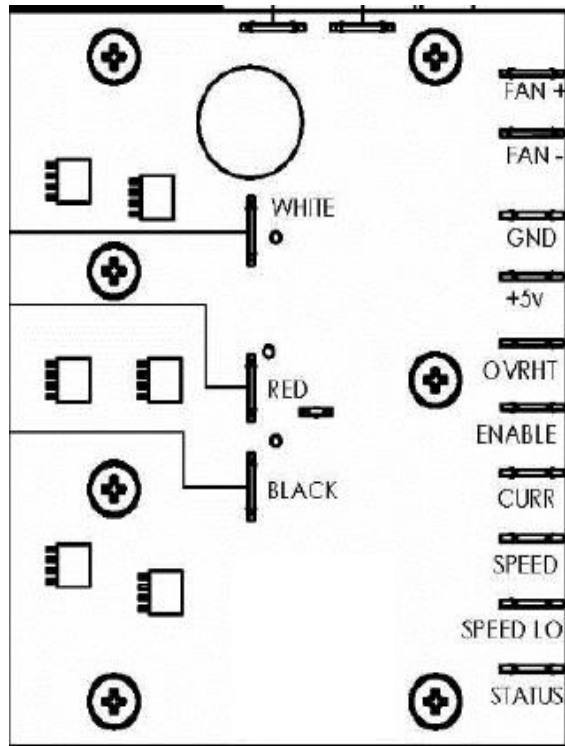


Buzzer Details

Analog Output

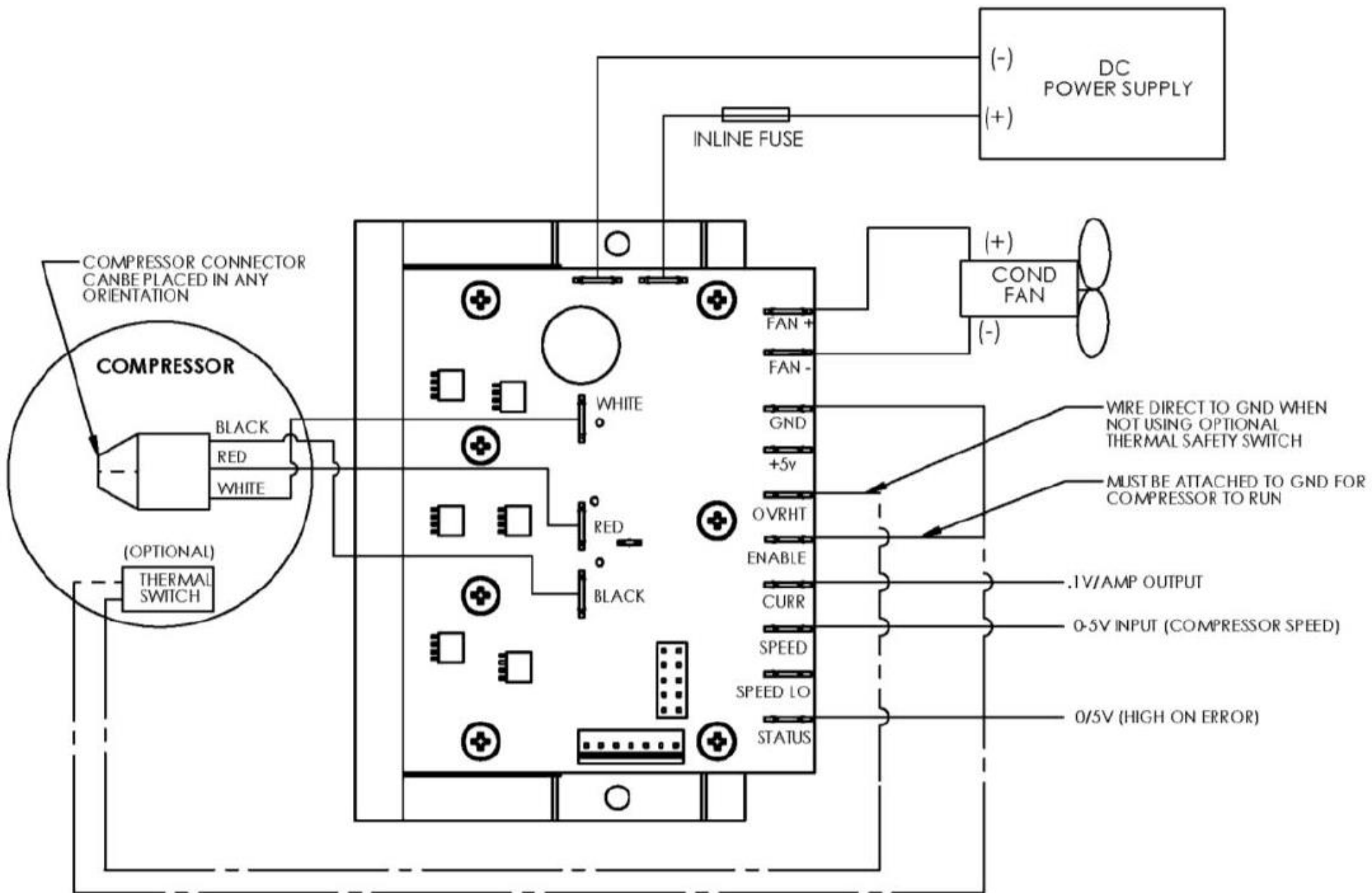


Compressor Analog output
Speed Input



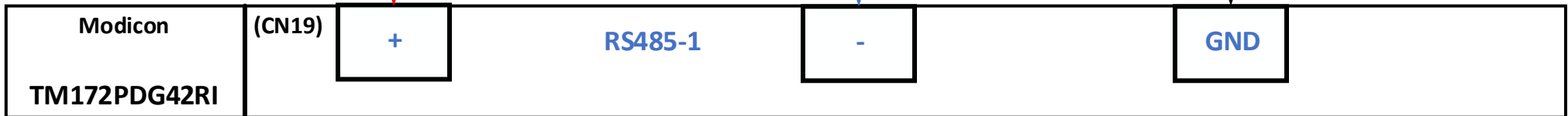
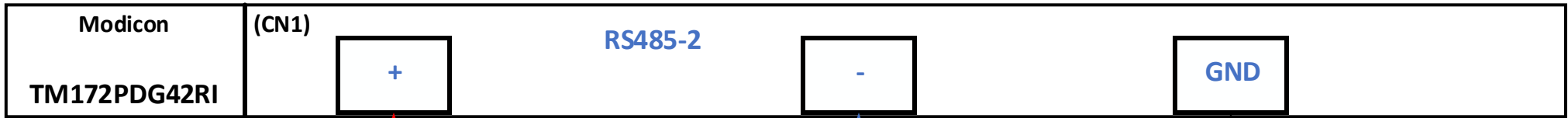
Pin TB14 : Compressor Speed Input
Pin TB9 : Ground

Compressor Details



RS485 Communication

Street Side M172 Master



Curb Side M172 Slave

Street Side M172 PLC is Master Controller.
Curb Side M172 PLC is Slave Controller.

Make a connection as shown above for the temperature reading
and door alarm reading from Curb Side PLC to Street Side PLC.

HMISTW6500 - Setup

Connecting the DC Power Cord

DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

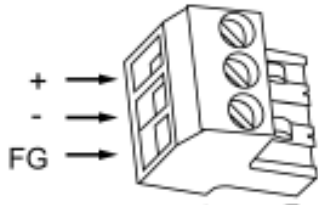
- Remove all power from the device before removing any covers or elements of the system, and prior to installing or removing any accessories, hardware, or cables.
- Remove power before wiring this product's power terminals.
- Always use a properly rated voltage sensing device to confirm power is off.
- Replace and secure all covers or elements of the system before applying power to this product.
- Use only the specified voltage when operating this product. This product is designed to use 24 Vdc. Always check whether your device is DC powered before applying power.
- Since this product is not equipped with a power switch, be sure to connect a power switch to the power supply.
- Be sure to ground this product's FG terminal.

Failure to follow these instructions will result in death or serious injury.

NOTE:

- The SG (signal ground) and FG (functional ground) terminals are separated inside this product.
- When the FG terminal is connected, be sure the wire is grounded. Not grounding this product can result in excessive electromagnetic interference (EMI).

DC Power Supply Connector Specifications

	Connection	Wire
	+	24 Vdc
	-	0 Vdc
	FG	Grounded terminal. Connect the FG terminal properly to ground.

HMISTW6500 - Setup

1. Connect the HMISTW ETH1 Port to PLC M172.
2. Turn ON HMISTW6500.
3. The password input screen will appear (Image 1).
Enter the default password: **Admins**
4. The Configuration Menu will appear. (Image 2)
5. Change the password from pressing **System** → **Password** (Image 3) after enter new password and confirm password → press **Change**

Image 1

Image 2

Image 3

Password	<p>For changing the password. The types of characters you can use are as shown below. Spaces are not allowed.</p> <p>Number of characters: 6 or more, up to 32 Available characters Lowercase letters: a to z Uppercase letters: A to Z Numbers: 0 to 9 Characters: - _</p> <p>NOTE: Do not lose the password. If you lose the password, contact your local distributor for assistance.</p>
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HMISTW6500 - Setup

6. Configuration Menu → Press **Network** set up IP address and other network settings (Image 4)

>> HMI

>> IP Address: **192.168.0.102**

>> Subnet Mask: **255.255.255.0**

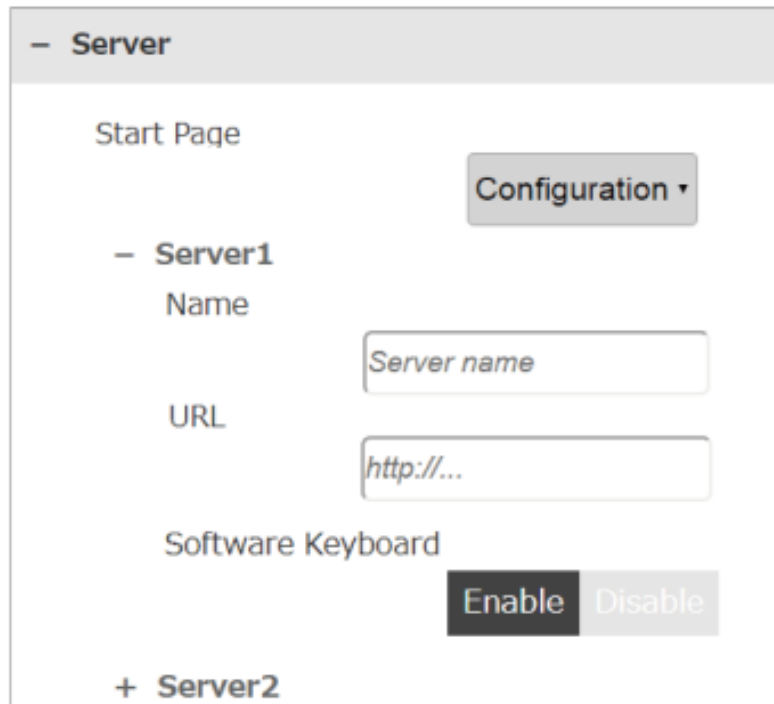
7. Configuration Menu → Press **Server** set up URL of PLC M172 with in network range of HMI Network set up.(Image 5)

>> Server1

>> Name : **Street Side**

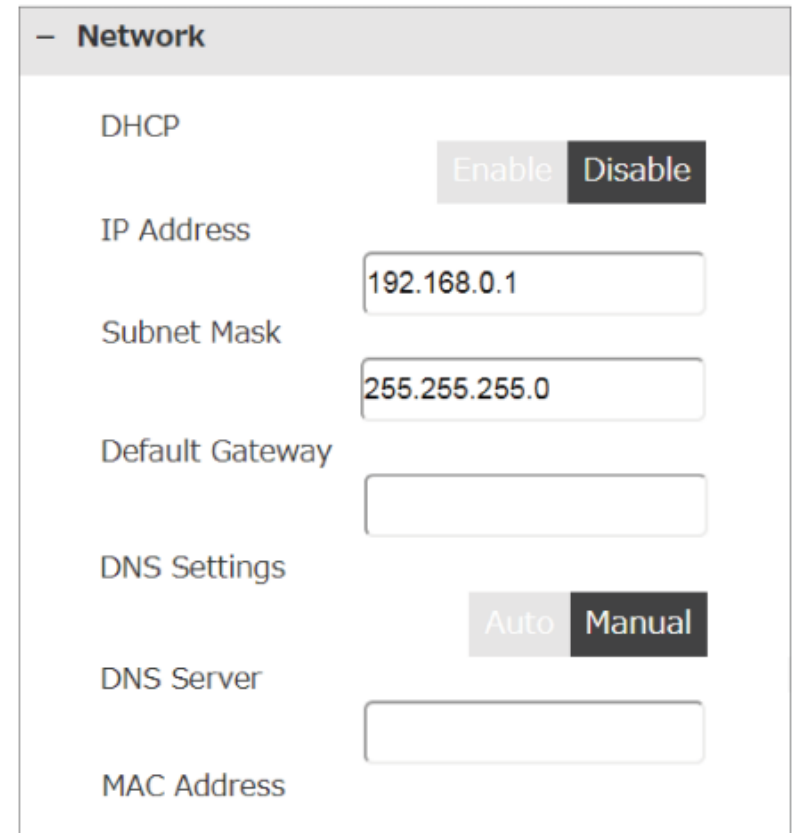
>> URL : **http://192.168.0.100**

Once you have set up Server1, with in same screen. Press **Configuration** drop down and select 4 Door. When selecting 4 Door web server, at the product starts up webserver will show up.



The screenshot shows the 'Server' configuration menu. At the top, there is a 'Start Page' label and a 'Configuration' dropdown button. Below this, there is a section for 'Server1' with a minus sign. Under 'Server1', there are two input fields: 'Name' with the placeholder text 'Server name' and 'URL' with the placeholder text 'http://...'. Below the input fields, there is a 'Software Keyboard' label and two buttons: 'Enable' (which is highlighted in black) and 'Disable'. At the bottom of the screen, there is a plus sign followed by 'Server2'.

Image 5



The screenshot shows the 'Network' configuration menu. At the top, there is a minus sign followed by 'Network'. Below this, there are several settings: 'DHCP' with 'Enable' and 'Disable' buttons (where 'Disable' is highlighted); 'IP Address' with a text input field containing '192.168.0.1'; 'Subnet Mask' with a text input field containing '255.255.255.0'; 'Default Gateway' with an empty text input field; 'DNS Settings' with 'Auto' and 'Manual' buttons (where 'Manual' is highlighted); 'DNS Server' with an empty text input field; and 'MAC Address' with an empty text input field.

Image 4

HMISTW6500 - Setup

8. Configuration Menu → Press **Interfaces** to turn off touch buzzer (Image 6).
Enable or Disable the buzzer for touch-panel sounds.
9. Touch **Save & Reboot** symbol on Top Right of the screen (Image 7) press 1(disk symbol) to save all the settings and restart HMISTW6400.

1. Save & Reboot
2. Exit without Saving

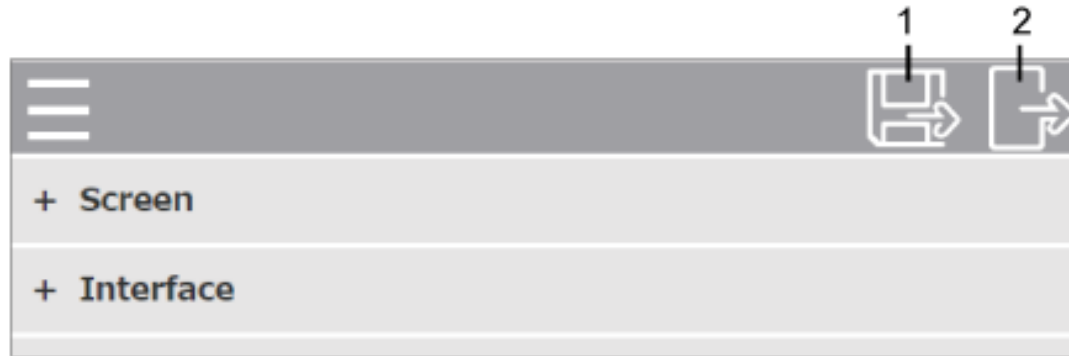


Image 7

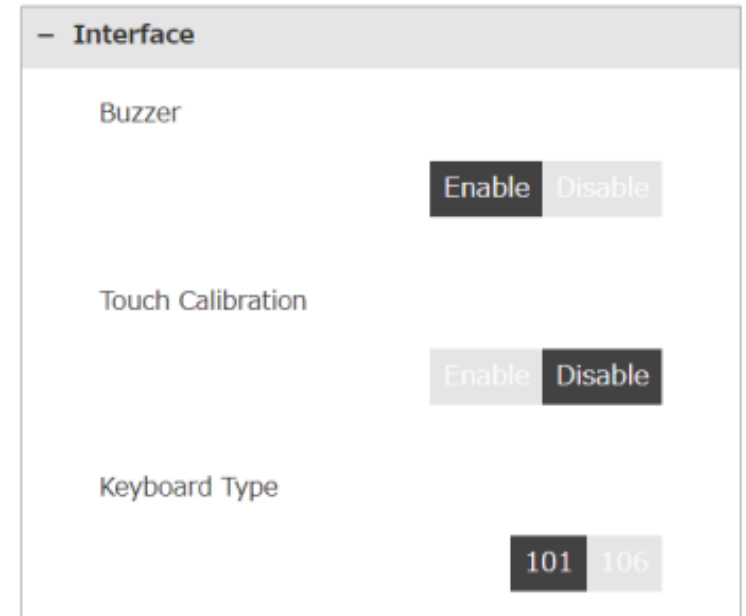


Image 6