# VH-0008ETN Module

### Manual

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VEICHI Electric Co., Ltd. provides customers with all-round technical support. Please contact the nearest office or service center, or directly contact the company headquarters.

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### Preface

### Brief

The VH-0008ETN series digital output expansion module features 8 channels of NPN transistor digital output. It can be used in conjunction with the VH series main modules.

#### Additional Materials

| Name                                       | Content Summary  |
|--|--|
| VH600 Series Programmable Logic Controller | Details instructions on installation, wiring, and operation. |
| VH-4AD Module Manual                       | Details instructions on installation, wiring, and operation. |
| VH100/300/500                              | Details instructions on installation, wiring, and operation. |

### ■ Version Change Log

| Date   | Version | Content       |
|--------|---------|---------------|
| 2024-3 | A1.0    | First release |

### Manual Acquisition

This manual is not shipped with products. To obtain the PDF file, please:

- Log on to the official website of VEICHI Electric (www.veichi.cn), "Services and Support-Data Download", search for keywords and download the PDF file.
- Scan the QR code on the product body to obtain it.

#### Warranty Description

Under normal use, VEICHI provides an 18-month warranty for product malfunctions or damage (starting from the factory date, based on the barcode on the product body, and following contract terms if applicable). After 18 months, repair costs will be charged. Within the first 18 months, repair costs will be incurred for:

- Improper operation of the product without following the manual.
- Damage caused by fire, flood, or abnormal voltage.
- Damage caused by using the product for non-intended purposes.
- Damage caused by exceeding the product's specified usage range.
- Secondary damage caused by force majeure (natural disasters, earthquakes, lightning strikes).

The relevant service fee shall be calculated by the unified standard of the manufacturer. If there is a contract, terms in it will be of the highest priority.

Please refer to "Product Warranty Card" for details.

### Precautions

#### Safety Statement

- Read and follow these safety precautions before installing, operating, or maintaining the product.
- Ensure personal and equipment safety by adhering to all safety instructions indicated on the product and described in the manual during installation, operation, and maintenance.
- The "Caution," "Warning," and "Danger" notices in the manual do not cover all of the safety precautions to be observed, but only supplement to safety precautions.
- Please use the product in an environment that meets the requirements of design specifications, otherwise it may cause failure, abnormal function or component damages, which is not within the scope of product quality assurance.
- VEICHI will not take on any legal responsibility for personal safety accidents and property damage caused by unauthorized operation of the product.

### ■ Safety Level



Failure to observe the precautions will cause serious personal injuries or deaths.

Failure to observe the precautions may cause serious personal injuries or deaths.

Failure to observe the precautions may cause slight personal injuries or product damage.

Please keep this manual safe for reference and ensure it is delivered to the end user.

| <ul> <li>Ensure safety circuit design to maintain secure operation during power outages or controller fail</li> <li>Install external safety devices like fuses or circuit breakers to prevent smoking or fire from or caused by load overloads or short circuits.</li> <li>MARNING</li> <li>Design emergency stop, protection, and interlock circuits for forward/reverse operations, switches to prevent product damage in the PLC external circuits;</li> <li>Design external protective circuits and safety mechanisms for major accident-related output ensure equipment safety;</li> <li>The programmable controller's CPU may shut down all outputs upon detecting system anomal</li> </ul> | vercurrent  |
|---|-------------|
| <ul> <li>Install external safety devices like fuses or circuit breakers to prevent smoking or fire from or caused by load overloads or short circuits.</li> <li>MARNING</li> <li>Design emergency stop, protection, and interlock circuits for forward/reverse operations, switches to prevent product damage in the PLC external circuits;</li> <li>Design external protective circuits and safety mechanisms for major accident-related output ensure equipment safety;</li> </ul>  | vercurrent  |
| <ul> <li>Design emergency stop, protection, and interlock circuits for forward/reverse operations, switches to prevent product damage in the PLC external circuits;</li> <li>Design external protective circuits and safety mechanisms for major accident-related output ensure equipment safety;</li> </ul>  | and limit   |
| <ul> <li>switches to prevent product damage in the PLC external circuits;</li> <li>Design external protective circuits and safety mechanisms for major accident-related output ensure equipment safety;</li> </ul>  | and limit   |
| ensure equipment safety;  |             |
| > The programmable controller's CPU may shut down all outputs upon detecting system anomal  | signals to  |
| appropriate external control circuits to ensure normal operation in case of partial circuit failure;  | es; design  |
| Damage to the PLC relays, transistors, or other output units may render their outputs uncont<br>switching between ON and OFF states;  | rollable in |
| The PLC is designed for indoor use in an overvoltage category II electrical environment; its por<br>should include lightning protection to prevent damage from overvoltage due to lightning<br>power/signal input terminals, or control output terminals.   | •           |
| Installation  |             |
| WARNING   |             |
| <ul> <li>Only professionals with relevant maintenance training in electrical equipment and electrical can install this product;</li> </ul>  | cnowledge   |
| <ul> <li>Disconnect all external power supplies before disassembling or assembling modules. Failure to result in electric shock, module failure, or malfunction;</li> </ul>   | do so may   |
| Do not use the PLC in environments with dust, fumes, conductive dust, corrosive gases, or gases; exposed to high temperatures, condensation, wind, or rain; or in areas with vibration Electrical shock, fire, and misoperation can damage and deteriorate the product;   |             |
| As the PLC is an open-type device, install it in a control cabinet (enclosure protection > IP20) w<br>accessible only to operators trained in electrical equipment with sufficient electrical knowledge.  | ith a lock, |

| Avoid metal debris and wire ends falling into the PLC's ventilation openings during installation to prevent fire, malfunction, or misoperation;  |
|--|
| Ensure no obstructions on the ventilation surface after installation to avoid impaired heat dissipation, which could cause fire, malfunction, or misoperation;   |
| Securely connect the module to its connector and lock the hooks during installation to prevent misoperation, failure, or detachment due to improper installation.  |
| Wiring   |
|  |
| Only professionals with relevant training in electrical equipment and electrical knowledge can carry out wiring on this product;   |
| Disconnect all external power supplies before wiring. Failure to do so may result in electric shock, equipment failure, or malfunction;  |
| After wiring, install the provided terminal cover before powering up and operating the product to prevent electric shock;  |
| Ensure proper insulation on cable terminals and maintain the required spacing between cables after installation to avoid electric shock or equipment damage.   |
|  |
| Disconnect the power supply before connection to avoid electric shock;   |
| The input voltage for this product is DC 24V; supplying power outside the DC24V±20% range can  |
| severely damage the product. Regularly check the stability of the DC power provided by the switching   |
| power supply.  |
| Operation & Maintenance  |
|  |
| Only professionals with relevant training in electrical equipment and electrical knowledge can operate and maintain this product;  |
| Disconnect all external power supplies before cleaning modules or adjusting terminal and connector bolts to prevent electric shock.  |
| Disconnect all external power supplies before removing or installing modules or connecting/disconnecting communication cables. Incomplete disconnection may cause electric shock or misoperation.                        |
| nendations   |
| Carefully consider the functionality of field manual devices or other alternatives at locations where operators directly contact mechanical parts, such as loading/unloading stations or automated mechanical            |
| operation areas. These should be independent of the PLC and capable of initiating or interrupting the system's automatic operation.  |
|  |
| system's automatic operation.<br>When modifying programs while the system is running, consider implementing locking or other   |
| system's automatic operation.<br>When modifying programs while the system is running, consider implementing locking or other<br>protective measures to ensure that only authorized personnel can make necessary changes. |
| system's automatic operation.<br>When modifying programs while the system is running, consider implementing locking or other<br>protective measures to ensure that only authorized personnel can make necessary changes. |
|  |

## 1 Product Information

### 1.1 Naming Rules and Nameplate

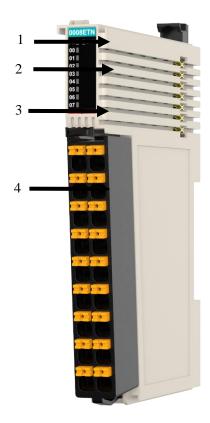
| <u>VH – 00 08 E TN</u>  |  |  |  |  |  |
|---|--|--|--|--|--|
| 0 1 2 3 4   |  |  |  |  |  |
|   |  |  |  |  |  |
| ©IO input points<br>00: 0 points                                    |  |  |  |  |  |
| ©IO output points<br>08: 8 points                                   |  |  |  |  |  |
| <ul><li>③Module type</li><li>E: Logic IO expansion module</li></ul> |  |  |  |  |  |
| <ul><li>Output type</li><li>R: Relay output</li></ul>               |  |  |  |  |  |
| TP: Transistor output (source)<br>TN: Transistor output (sink)      |  |  |  |  |  |



Based on the naming rules and nameplate information, the relevant ordering data for this product is shown in the table below:

| Model      | Description                                   | Code | Model                            |
|------------|---|------|----------------------------------|
| VH-0008ETN | VH series 8-channel digital output, sink type |      | VH series PLC, VH series coupler |

## 1.2 Component



| No. | Interface               | Definition                            |                         |                          |                         |
|-----|-------------------------|---------------------------------------|-------------------------|--------------------------|-------------------------|
| 1   | Signal indicator        | PR Power/Run<br>(POWER+RUN) indicator |                         | On (Green)               | Normal                  |
|     |                         |                                       |                         | Off                      | Module abnormal         |
|     |                         |                                       |                         | Flash (Green)            | Module ready or stopped |
|     |                         | ERR                                   | Error indicator         | On (Red)                 | Module error            |
| 2   | IO signal<br>indicator  | Left side (00~07) i                   | ndicators correspond to | 9 8 output channels, lit | when output is active;  |
|     |                         | Yellow: IO input                      |                         | R                        | Red: IO output          |
| 3   | Color<br>identification | Gre                                   | Green: Analog input     |                          | Blue: Analog output     |
|     |                         | Orange: Temperature input             |                         | t                        |                         |
| 4   | User terminal           | Refer to the term details.            | inal definition sectior | for                      |                         |

## 1.3 Technical Specification

### 1.3.1 Power Specification

| Item                                | Specification             |
|-------------------------------------|---------------------------|
| Terminal input power rated voltage  | 24VDC (20.4VDC ~ 28.8VDC) |
| Terminal input power rated current  | 2A (typical at 24V)       |
| Bus input power rated voltage       | 5VDC (4.75VDC ~ 5.25VDC)  |
| Bus input power rated current       | 85mA (typical at 5V)      |
| Power isolation                     | 24V and 5V isolated       |
| Terminal output power rated voltage | None                      |
| Terminal output power rated current | None                      |
| Module hot swap                     | N/A                       |

### 1.3.2 Output Specification

| Item                          | Specification   |
|-------------------------------|---|
| Output type                   | Digital output, transistor output   |
| Output mode                   | Sink type   |
| Output channel                | 8   |
| Voltage level                 | 24VDC±10% (21.6VDC ~ 26.4VDC)   |
| Output load (resistive load)  | 0.5A/terminal, 2A/module  |
| Output load (inductive load)  | 7.2W/terminal, 12W/module   |
| Output load (lamp load)       | 5W/terminal, 18W/module   |
| Hardware response time ON/OFF | 100us/100us   |
| OFF leakage current           | 10uA  |
| Switching frequency           | Resistive load: 100Hz, inductive load: 0.5Hz, lamp load: 10Hz   |
| Isolated                      | Yes   |
| Output display                | When it is the driving state, the output indicator is ON (controlled by software)                         |
| Output derating               | 50% derating at 55°C (ON output current not exceeding 1A), or 10°C derating when all output points are ON |
| Protection                    | Short circuit protection, over-current protection   |

### 1.3.3 Software Specification

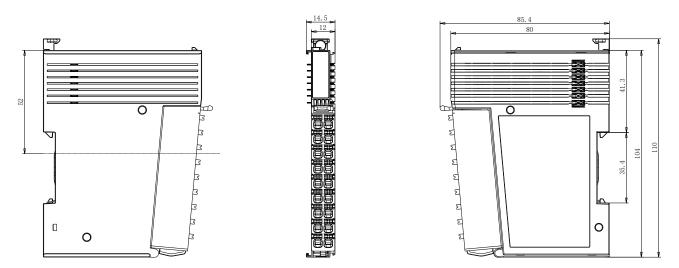
| Item   | Specification   |
|--|---|
| Output status on fault                         | Clear, hold current value, output preset value                |
| Preset value on fault                          | 0 or 1  |
| Output port exception detection and indication | None  |
| Output channel logic level                     | N/A   |
| Independent channel enable configuration       | N/A   |
| Diagnostic reporting feature                   | N/A   |
| Under shutdown mode                            | Outputs do not refresh  |
| IO mapping                                     | Support bit-wise, byte-wise, and word-wise IO mapping methods |

### 2 Mechanical Installation

#### 2.1 Installation Dimension

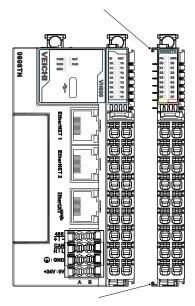
#### 2.1.1 Module

Installation dimension information is shown in the following figure, and the unit is millimeter (mm):



Ensure at least 10mm of clearance above the product to accommodate the latch's movement.

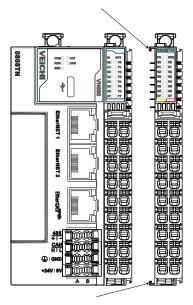
#### 2.1.2 Cable Connection



#### 2.2 Installation Method

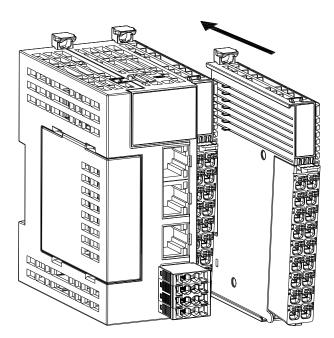
#### 2.2.1 Module-to-Module Installation

Modules are mounted by sliding to the correct positions by the top and bottom lead rails.



#### 2.2.2 Module Installation on Rail

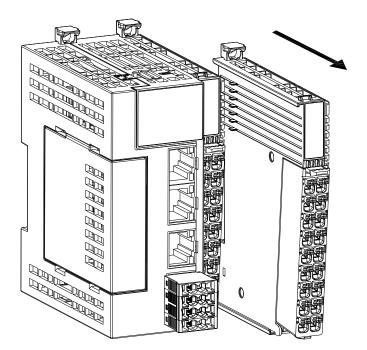
The module is installed using the DIN lead rail. When installing, align the module to the DIN lead rail, press the latch, and there will be an obvious clipping sound if it is in place, as shown in the figure below.



Description: Depress the rail latch to open it, then place the module on the DIN lead rail and press down on the latch to secure it. Install a DIN snap at both ends of the main unit or module. When installing the rail snap, hook the bottom of it to the bottom of the rail and then rotate the snap so that the top end of it is hooked to the top end of the rail, and finally tighten the screws to lock the rail snap.

### 2.2.3 Disassembly

Depress the rail latch with your finger and then pull the module away from the DIN lead rail.



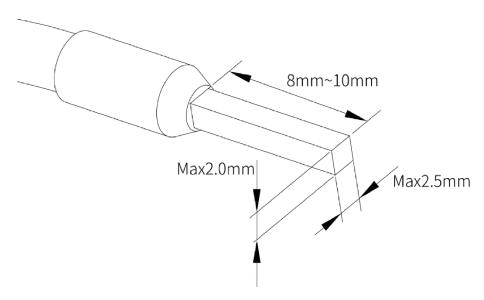
### 3 Electrical Installation

### 3.1 Cable Selection

In the following table, the lug diameter is for reference only, which can be calculated reasonably according to actual use and adjusted separately.

| Name        | Diameter |          |  |
|-------------|----------|----------|--|
| ivanie      | GB/mm2   | ANSI/AWG |  |
|             | 0.3      | 22       |  |
| Tubular lug | 0.5      | 20       |  |
|             | 0.75     | 18       |  |
|             | 1.0      | 18       |  |
|             | 1.5      | 16       |  |

If other tubular lugs are used, press them to the twisted cables. The shape and size requirements are as shown in the following figure.



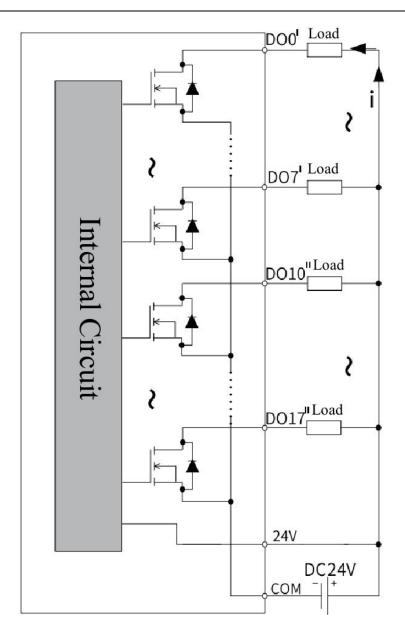
### 3.2 Terminal Definition



| Left Indicator | Left Signal | Left Terminal | Right Terminal | Right Signal | Right Indicator |
|----------------|-------------|---------------|----------------|--------------|-----------------|
| 00             | Y00         | A1            | B1             | /            | /               |
| 01             | Y01         | A2            | B2             | /            | /               |
| 02             | Y02         | A3            | В3             | /            | /               |
| 03             | Y03         | A4            | B4             | /            | /               |
| 04             | Y04         | A5            | В5             | /            | /               |
| 05             | Y05         | A6            | B6             | /            | /               |
| 06             | Y06         | A7            | B7             | /            | /               |
| 07             | Y07         | A8            | B8             | /            | /               |
| /              | 24V         | A9            | В9             | СОМ          | /               |

## 3.3 User Terminal Wiring

### 3.3.1 Output Terminal Wiring



## 4 Module Programming

### 4.1 VEICHI CODESYS Programming Software

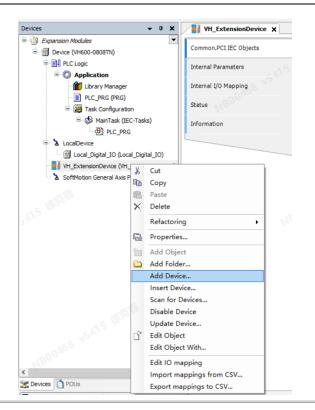
### 4.1.1 Create a New Project

| New Pro            | oject                        |                     |                 |                     | NEOOT                 | × |
|--------------------|------------------------------|---------------------|-----------------|---------------------|-----------------------|---|
| <u>C</u> ategories |                              | <u>T</u> emplates   |                 |                     |                       |   |
|                    | raries<br>ojects             | Empty project       | HMI project     | Standard<br>project | Standard<br>project w |   |
| 00468              | 15415 份話書                    |                     |                 |                     |                       |   |
| A project co       | ontaining one device, one ap | plication, and an e | empty implement | tation for PLC_     | PRG                   |   |
| <u>N</u> ame       | Untitled3                    |                     |                 |                     |                       |   |
| <u>L</u> ocation   | D:\plc chengxu\vh600         |                     |                 |                     | ~ .                   |   |
|                    |                              | 1                   |                 |                     |                       |   |
|                    |                              | 415 18.58           |                 | OK                  | Cancel                |   |

#### 4.1.2 Add a New Module

| Devices – 🕈 🗙                           | VH_ExtensionDevice 🗙                     |
|---|--|
| Expansion Modules                       |  |
| 🖃 🕤 Device (VH600-0808TN)               | Common.PCI IEC Objects                   |
| 🗐 🗐 PLC Logic                           | Internal Parameters                      |
| - O Application                         |  |
| Library Manager                         | Internal I/O Mapping                     |
|   | Status                                   |
| 🖹 🧱 Task Configuration                  | 1. |
| □ S MainTask (IEC-Tasks)                | Information                              |
| PLC_PRG                                 |  |
|   |  |
| Local Digital IO (Local Digital IO)     |  |
| VH_ExtensionDevice (VH_ExtensionDevice) |  |
| SoftMotion General Axis Pool            |  |
|   |  |
|   |  |
|   |  |
|   | 14                                       |
|   |  |

Right-click it and select "Add Device."



#### Add Device

| 5 Append de                     | evice O <u>I</u> nse                           | rt device O Plug d                                     | evice OL     | Ipdate device          |         | NEOT                             |        |  |
|---------------------------------|--|--|--------------|------------------------|---------|----------------------------------|--------|--|
| tring for a ful                 | l text search                                  |  | Vendor       | <all vendors=""></all> |         |                                  |        |  |
| Name<br>=- 🚹 Miscel             | laneous  | Vendor   |              |                        | Version | Description                      |        |  |
| - III VI                        | H-0008ETN                                      | Shenzhen Veichi Co                                     | ntrol Techno | logy Co. Ltd.          | 1.0.0.1 | 8 channels NPN DO module         |        |  |
| 📖 Vi                            | H-0008ETP                                      | Shenzhen Veichi Co                                     | ntrol Techno | logy Co. Ltd.          | 1.0.0.1 | 8 channels PNP DO module         |        |  |
| 🎆 VI                            | H-0016ETN                                      | Shenzhen Veichi Co                                     | ntrol Techno | logy Co. Ltd.          | 1.0.0.1 | 16 channels NPN DO module        |        |  |
| 🏢 Vi                            | H-0016ETP                                      | Shenzhen Veichi Co                                     | ntrol Techno | logy Co. Ltd.          | 1.0.0.1 | 16 channels PNP DO module        |        |  |
| 🎹 VI                            | H-0800END                                      | Shenzhen Veichi Co                                     | ntrol Techno | logy Co. Ltd.          | 1.0.0.1 | 8 channels DI module             |        |  |
| 🛄 VI                            | H-0808ETN                                      | Shenzhen Veichi Co                                     | ntrol Techno | logy Co. Ltd.          | 1.0.0.1 | 8 channels Sinking DI and 8 cha  | annels |  |
| 🛄 Vi                            | H-0808ETP                                      | Shenzhen Veichi Co                                     | ntrol Techno | logy Co. Ltd.          | 1.0.0.1 | 8 channels Sourcing DI and 8 cha |        |  |
| 📰 VI                            | H-1600END                                      | Shenzhen Veichi Co                                     | ntrol Techno | logy Co. Ltd.          | 1.0.0.1 | 16 channels DI module            |        |  |
| Vend<br>Categ<br>Versi<br>Order | <b>jories:</b><br>on: 1.0.0.1<br>r Number: 1.0 | 'eichi Control Technolo<br>.0.0<br>Inels NPN DO module | ngy Co. Ltd. |                        |         | Ż                                |        |  |
|                                 |  |  |              |                        |         |                                  |        |  |

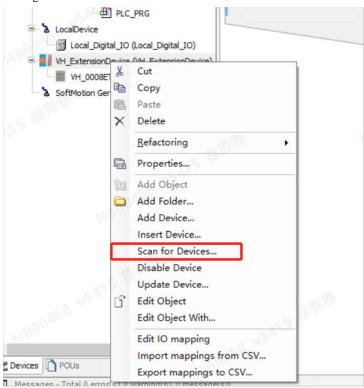
#### Click the "Add Device."

#### 4.1.3 Configure Parameters

| evices v 🗸 🗸 🗙  | VH_ExtensionDevice  | VH_0          | 008ETN 🗙   |      |       |               |      | 16.98   |
|---|---|---------------|------------|------|-------|---------------|------|---|
| Expansion Modules     Expension Modules     Device (VH600-0808TN) | veichi:SlotVbus IEC Objects   |               | ameter     | Туре | Value | Default Value | Unit | Description   |
| = Device (vhood-doosiny)  |   | 😑 🖗 StopMode0 |            | BYTE | 0     |               |      | DO module stopmode after EtherCAT lost link(FALSE:Output hold,TRUE:Output |
|   | 0008ETN Parameters  | 1             | 🖉 🌒 Bito   | BOOL |       |               |      |   |
| Library Manager   |   |               | P Bit1     | BOOL |       |               |      |   |
|   | 0008ETN I/O Mapping   |               | Bit2       | BOOL |       |               |      |   |
| PLC_PRG (PRG)   | Status  |               | Ø Bit3     | BOOL |       |               |      |   |
| E - 🗱 Task Configuration  | the second se |               |            | BOOL |       |               |      |   |
| AainTask (IEC-Tasks)  | Information   |               | Bit5       | BOOL |       |               |      |   |
| PLC_PRG   |   |               |            |      |       |               |      |   |
| E LocalDevice   |   |               | III Bit6   | BOOL |       |               |      |   |
| Local_Digital_IO (Local_Digital_IO)                               |   |               | Bit7       | BOOL |       |               |      |   |
| ExtensionDevice (VH_ExtensionDevice)                              |   |               | StopValue0 | BYTE | 0     |               |      | DO module stopvalue after EtherCAT lost link                              |
| WH_0008ETN (VH-0008ETN)   |   |               | 🖤 🖗 BitO   | BOOL |       |               |      |   |
| SoftMotion General Axis Pool                                      |   |               | 🗢 🖗 Bit1   | BOOL |       |               |      |   |
| 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1                          |   |               | Ø Bit2     | BOOL |       |               |      |   |
| 4.5 <sup>(G)</sup>  |   |               | Bit3       | BOOL |       |               |      |   |
|   |   |               | 🕈 Bit4     | BOOL |       |               |      |   |
|   |   |               | Bit5       | BOOL |       |               |      |   |
|   |   |               | Bit6       | BOOL |       |               |      |   |
|   |   |               | Bit7       | BOOL |       |               |      |   |

#### 4.1.4 Automatic Scanning

The VH600 allows manual slot configuration or module scanning after installing the right expansion modules. The configuration and sequence of expansion modules must match the physical setup; otherwise, an alarm will warn of a mismatch between configuration and connection.



#### 4.1.5 IO Mapping

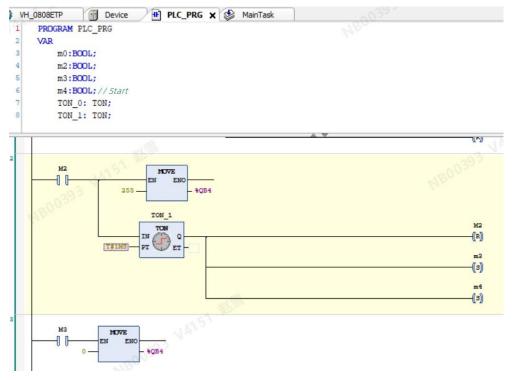
VH600 defaults to no mapping relationship, so it is necessary to map the registers that need to be controlled and monitored to the soft elements before use; otherwise, users cannot operate them.

| Devices 👻 🗘 🗙                            | VH_ExtensionDevice          | VH_0008ETN X |         |   |         |        |      |                     |  |
|--|-----------------------------|--------------|---------|---|---------|--------|------|---------------------|--|
| Expansion Modules                        | veichi:SlotVbus IEC Objects | Find         | -       | <ul> <li>Add FB for IO Channel</li> </ul> |         |        |      |                     |  |
| Device (VH600-0808TN)                    | verchi.Siotvous iEC objects |              |         | Filter Show                               |         |        |      | 10                  |  |
| E 1 PLC Logic                            | 0008ETN Parameters          | Variable     | Mapping | Channel                                   | Address | s Type | Unit | Description         |  |
| = O Application                          | - (A) -                     | B- 🍫         |         | out0                                      | %QB4    | BYTE   |      | Digital output00~07 |  |
| - 🎁 Library Manager                      | 0008ETN I/O Mapping         | - <b>*</b> * |         | Bit0                                      | %QX4.0  | BOOL   |      |                     |  |
| PLC_PRG (PRG)                            |                             | - **         |         | Bit1                                      | %QX4.1  | BOOL   |      |                     |  |
| a 🖼 Task Configuration                   | Status                      | **           |         | Bit2                                      | %QX4.2  | BOOL   |      |                     |  |
| 😑 🍪 MainTask (IEC-Tasks)                 | Information                 | - **         |         | Bit3                                      | %QX4.3  | BOOL   |      |                     |  |
| DIC_PRG                                  |                             | - **         |         | Bit4                                      | %QX4.4  | BOOL   |      |                     |  |
| □ LocalDevice                            |                             | - **         |         | Bit5                                      | %QX4.5  | BOOL   |      |                     |  |
| Local_Digital_IO (Local_Digital_IO)      |                             | **           |         | Bit6                                      | %QX4.6  | BOOL   |      |                     |  |
| VH_ExtensionDevice (VH_ExtensionDevice)  |                             | -*           |         | Bit7                                      | %QX4.7  | BOOL   |      |                     |  |
| VH_0008ETN (VH-0008ETN)                  |                             |              |         |   |         |        |      |                     |  |
| SoftMotion General Axis Pool             |                             |              |         |   |         |        |      |                     |  |
| 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 |                             |              |         |   |         |        |      |                     |  |
| 15 000                                   |                             |              |         |   |         |        |      |                     |  |
| 5 <sup>10</sup>                          |                             |              |         |   |         |        |      |                     |  |

### 4.1.6 Set Parameters

| veichi:SlotVbus IEC Objects | Parameter      | Туре | Value | Default Value | Unit | Description   |
|-----------------------------|----------------|------|-------|---------------|------|---|
| 0008ETN Parameters          | 😑 🖗 StopMode0  | BYTE | 0     |               |      | DO module stopmode after EtherCAT lost link(FALSE:Output hold,TRUE:Output |
| UUU8EIN Parameters          | 🔷 🖗 Bit0       | BOOL |       |               |      |   |
| 008ETN I/O Mapping          | Ø Bit1         | BOOL |       |               |      |   |
|                             | - 🖗 Bit2       | BOOL |       |               |      |   |
| itatus                      | Bit3           | BOOL |       |               |      |   |
| nformation                  | Ø Bit4         | BOOL |       |               |      |   |
| mormation                   | Ø Bit5         | BOOL |       |               |      |   |
|                             | Ø Bit6         | BOOL |       |               |      |   |
|                             | 🔷 🖗 Bit7       | BOOL |       |               |      |   |
|                             | 😑 🖗 StopValue0 | BYTE | 0     |               |      | DO module stopvalue after EtherCAT lost link                              |
|                             | 🔶 🖗 Bit0       | BOOL |       |               |      |   |
|                             | 🔷 🖗 Bit1       | BOOL |       |               |      |   |
|                             | 🖗 Bit2         | BOOL |       |               |      |   |
|                             | Ø Bit3         | BOOL |       |               |      |   |
|                             | Ø Bit4         | BOOL |       |               |      |   |
|                             | 🗼 🖗 Bit5       | BOOL |       |               |      |   |
|                             | Ø Bit6         | BOOL |       |               |      |   |
|                             | - 🖗 Bit7       | BOOL |       |               |      |   |

### 4.1.7 Write User Program



#### 4.1.8 Compile, Download, and Run

If the compilation is without errors, download and run the program.

