INSTRUCTION MANUAL

DC VOLTAGE INPUT MODULE
(4 points, non-isolated)

MODEL **R8Y-SVZH4N**

BEFORE USE ....

Thank you for choosing us. Before use, please check contents of the package you received as outlined below.
If you have any problems or questions with the product, please contact our sales office or representatives.

■ PACKAGE INCLUDES:

DC voltage input module.....(1)

■ MODEL NO.

Confirm Model No. marking on the product to be exactly what you ordered.

■ INSTRUCTION MANUAL

This manual describes necessary points of caution when you use this product, including installation, connection and basic maintenance procedures.

POINTS OF CAUTION

■ CONFORMITY WITH EU DIRECTIVES

- The equipment must be mounted on the DIN rail inside a panel.
- The actual installation environments such as panel configurations, connected devices, connected wires, may affect the protection level of this device when it is integrated in a panel system. The user may have to review the CE requirements in regard to the whole system and employ additional protective measures* to ensure the CE conformity.
  * For example, installation of noise filters and clamp filters for the power source, input and output connected to the device, etc.

■ GENERAL PRECAUTIONS

- Before you remove or mount the device, turn off the power supply and input signal for safety.
- Switches on the side of the device can be set for maintenance only while the power supply is off. Do not access them while the power is supplied.

■ ENVIRONMENT

- Indoor use.
- When heavy dust or metal particles are present in the air, install the device inside proper housing with sufficient ventilation.
- Do not install the device where it is subjected to continuous vibration. Do not subject the device to physical impact.
- Environmental temperature must be within -10 to +55°C (14 to 131°F) with relative humidity within 30 to 90% RH in order to ensure adequate life span and operation.

■ WIRING

- Do not install cables close to noise sources (relay drive cable, high frequency line, etc.).
- Do not bind these cables together with those in which noises are present. Do not install them in the same duct.

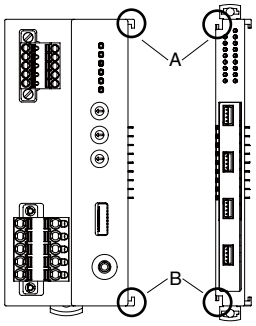
■ AND ....

- The device is designed to function as soon as power is supplied, however, a warm up for 10 minutes is required for satisfying complete performance described in the data sheet.

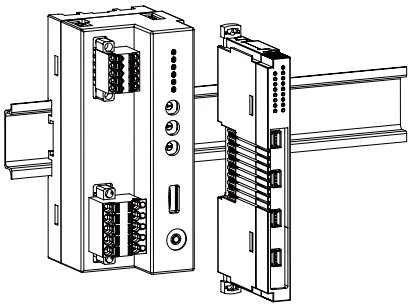
INSTALLATION

■ HOW TO MOUNT THE DEVICE ON DIN RAIL

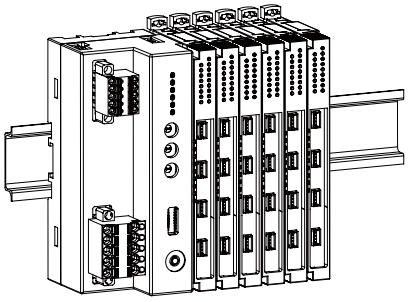
• I/O Module



Confirm that the locking clamps of the I/O module are set.
Insert the module in parallel to the next one while aligning the grooves of both modules (A & B in the above figure).
Maintain it perpendicularly to the rail.

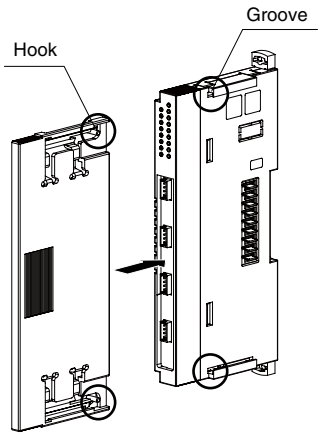


More I/O modules can be added in the same manner.

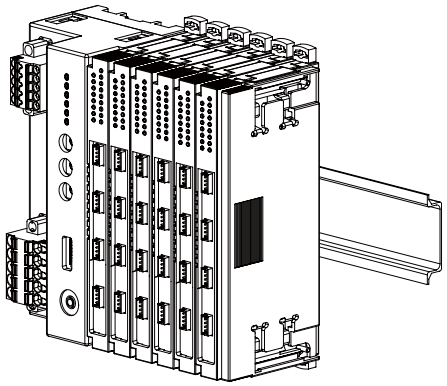


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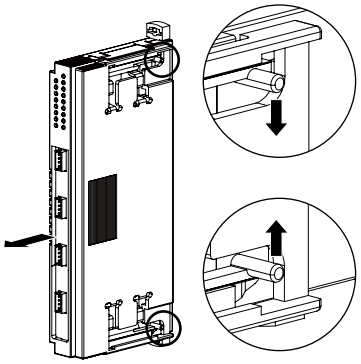
• Protective Cover



The protective cover is to be attached over the connected I/O module at the right end.
Align the hooks on the cover with the grooves of the module and slide it straight until the hooks are latched.

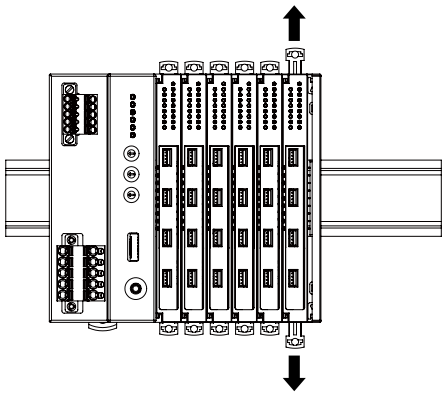


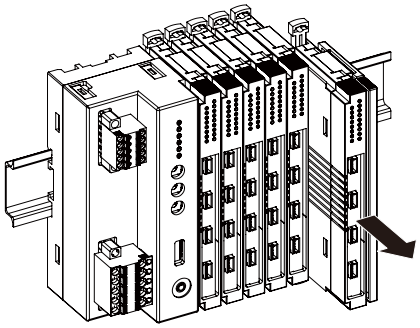
When removing the cover, pull it out while squeezing the hooks inward.



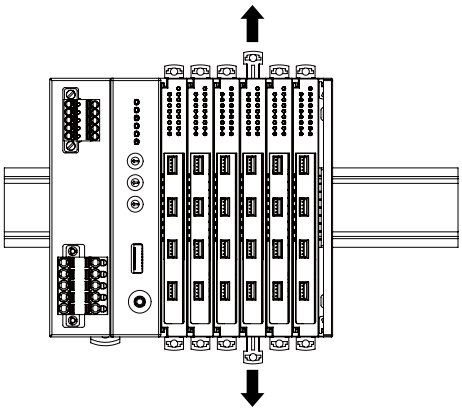
■ HOW TO UNMOUNT THE DEVICE ON DIN RAIL

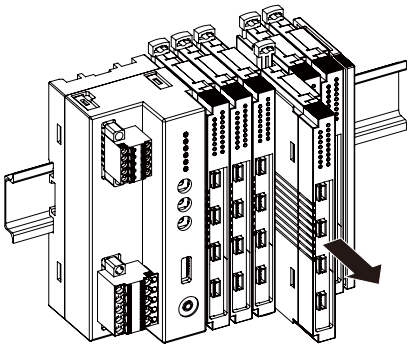
Release the locking clamps and pull out straight the module.





• Removing an intermediate module



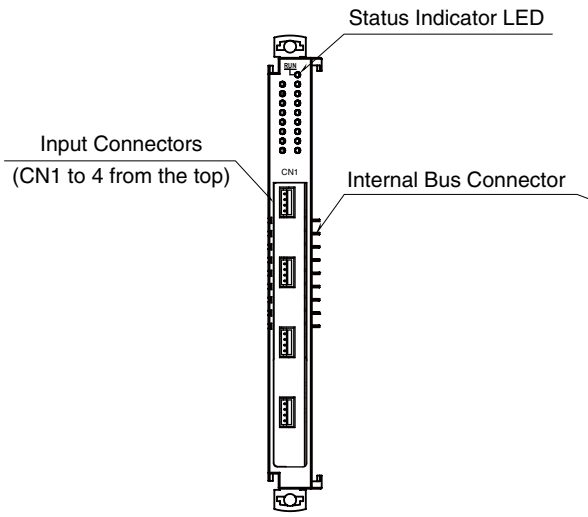


Caution !

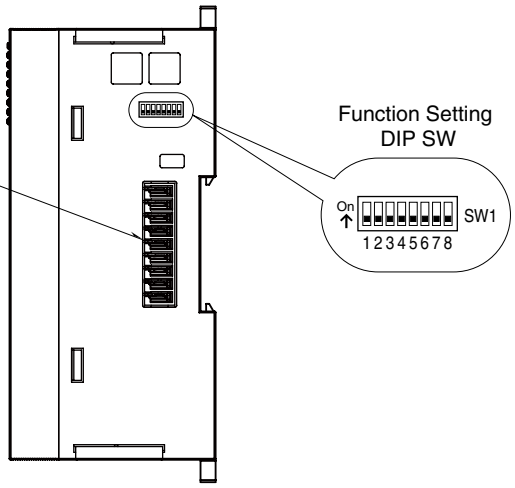
1) Be careful not to hurt your hand by pointed edges of the internal bus connector.
2) I/O modules cannot hold tightly on the DIN rail by themselves without power/network module.
   Secure them to the position if necessary by using DIN rail end plates.

COMPONENT IDENTIFICATION

■ **FRONT VIEW**



■ **SIDE VIEW**



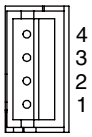
■ INDICATOR LED

ID	OPERATION	FUNCTION
Status	OFF	Stopping
	Green ON	Valid host communication
	Red ON	Setting error

■ INPUT CONNECTOR ASSIGNMENT

• ZH connector

Device side connector: S4B-ZR (J.S.T. Mfg. Co., Ltd.)
Recommended socket: ZHR-4 (J.S.T. Mfg. Co., Ltd.)
Recommended contact: SZH-002T-P0.5
(J.S.T. Mfg. Co., Ltd.)
Applicable wire size: AWG28 - 26
(The socket and contact are not included in the package. Refer to the specifications of the product.)



PIN No.	ID	FUNCTION
4	+	Input (+)
3	–	Input (–)
2	NC	No Connection
1	NC	No Connection

■ MODULE ADDRESS

The SW1-1, SW1-2 determines the tenth place digit, while the SW1-3, SW1-4, SW1-5, SW1-6 does the ones place digit of the address.
Address is selected between 0 to 30.
(Factory setting: 0)

MODULE ADDRESS	SW1				
	×10			1	2
	×1	3	4	5	6
0		OFF	OFF	OFF	OFF
1		OFF	OFF	OFF	ON
2		OFF	OFF	ON	OFF
3		OFF	OFF	ON	ON
4		OFF	ON	OFF	OFF
5		OFF	ON	OFF	ON
6		OFF	ON	ON	OFF
7		OFF	ON	ON	ON
8		ON	OFF	OFF	OFF
9		ON	OFF	OFF	ON

■ OPERATING MODE

(*) Factory setting

• TERMINATOR

TERMINATOR	SW1-8
Without (*)	OFF
With	ON

Note: Be sure to set unused SW1-7 to OFF.

PC CONFIGURATOR

The following parameter items can be set by using PC Configurator Software (model: R8CFG).
Refer to the users manual for the R8CFG for detailed operation of the software program.

■ CHANNEL INDIVIDUAL SETTING

PARAMETER	SETTING RANGE	DEFAULT SETTING
Input Range	-10 to +10 V DC	-10 to +10 V DC
Lower range value	-10.00 to +10.00 (V)	-10.00 (V)
Upper range value	-10.00 to +10.00 (V)	10.00 (V)
Fine zero adjustment	-320.00 to +320.00 (%)	0.00 (%)
Fine gain adjustment	-3.2000 to +3.2000	1.0000
Scaled range Zero	-32000 to +32000	0
Scaled range Span	-32000 to +32000	10000

■ CHANNEL BATCH SETTING

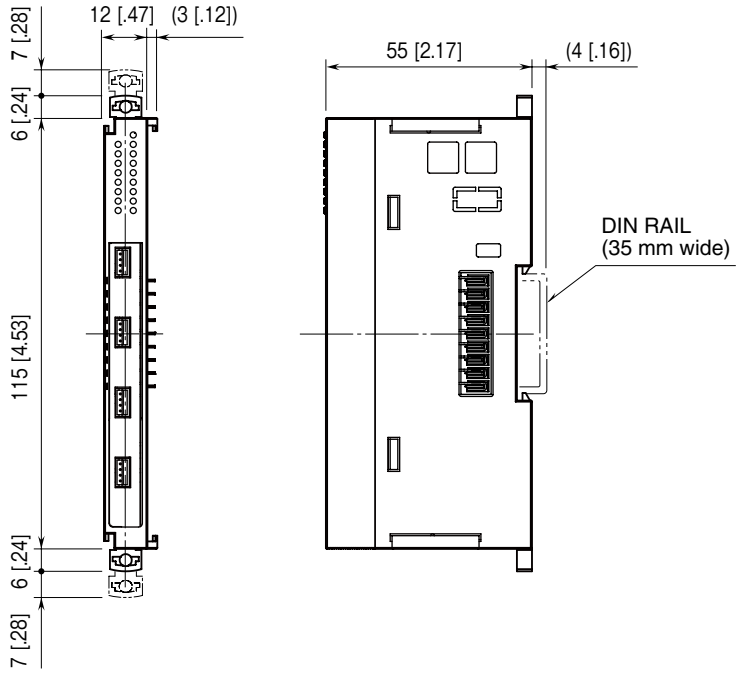
PARAMETER	SETTING RANGE	DEFAULT SETTING
Loss of internal bus communication detection time	0.0 to 99.9 (sec.)	1.0 (sec.)

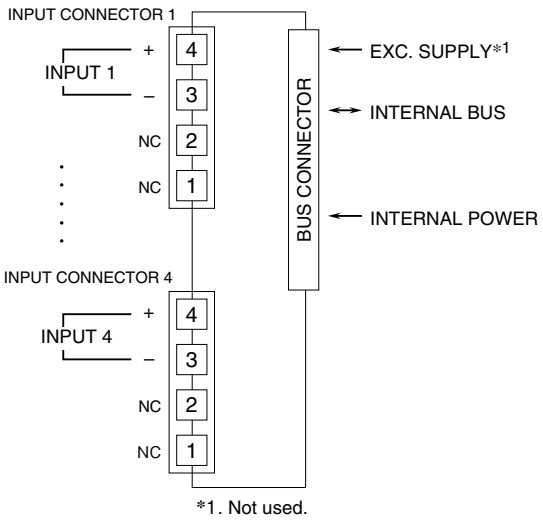
Note: Settings are programmed by the PC Configurator via the Power/Network Module.

TERMINAL CONNECTIONS

Connect the device as in the diagram below.

■ EXTERNAL DIMENSIONS unit: mm [inch]





*1. Not used.

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