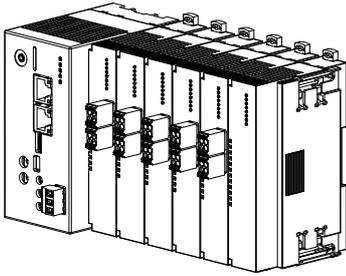


## Controller / Remote I/O PLC8 Series

### PLC8 SERIES GENERAL SPECIFICATIONS

#### Functions & Features

- Analog I/O modules or discrete I/O modules can be freely interchanged.
- Space-saving
- CODESYS is available (conforms to IEC 61131-3)



#### ORDERING INFORMATION

Refer to the specifications of the respective modules for details.

#### CONTROLLER: PLC8-[1]-R

Refer to the specifications of each module for details.

#### [1] MODULE TYPE

NE: PLC

#### POWER INPUT

##### DC power

R: 24 V DC

(Operational voltage range:  $\pm 10\%$ ; ripple 10 %p-p max.)

#### I/O MODULE: PLC8-[1]

Refer to the specifications of each module for details.

#### [1] MODULE TYPE

- Discrete I/O

DAC4: Discrete I/O module

(Di 2 points (internal power), Do 2 points (photo MOSFET relay))

#### END MODULE: PLC8-[1]

Refer to the specifications of each module for details.

#### [1] MODULE TYPE

END: End module

#### FUNCTIONS & FEATURES

PLC8 series consists of a controller, I/O modules, and an end module.

##### ■ CONTROLLER

The controller can control the I/O modules. It also generates an internal power for I/O modules.

##### ■ I/O MODULE

I/O modules perform analog input/output, discrete input/output, etc. via the internal bus.

##### ■ END MODULE

The end module is the terminal of internal bus.

When the end module is used with a controller and I/O modules, be sure to connect it after connecting I/O modules.

The end module is not included in the maximum number of connectable devices for the controller.

##### ■ HOT SWAPPING

Hot swapping is not possible since internal communication and supplying the internal power are conducted through the connectors of I/O modules.

##### ■ DIELECTRIC STRENGTH

Dielectric strength varies depending on the model. Check the specifications for each model.

#### RELATED PRODUCTS

- Programming tool (model: C-CDS35)
- SD card

An SD card is required to store data in the device.

Use the specified model number of SD card.

Available for purchase from us. Consult us.

#### GENERAL SPECIFICATIONS

**Connection:** Depends upon the type of modules. Refer to the specifications for the respective modules.

**Housing material:** Flame-resistant resin (gray)

##### ■ INTERNAL BUS

**Baud rate:** 1 Mbps

#### INSTALLATION

**Operating temperature:** -10 to +55°C (14 to 131°F)

**Operating humidity:** 10 to 90 %RH (non-condensing)

**Ambience:** No corrosive gas or heavy dust; no strong electric/magnetic field; no direct effect of vibration or physical impact

**Mounting:** DIN rail

**Weight:** Refer to the specifications of the respective modules.

## CURRENT CONSUMPTION

I/O modules and end module operate by using internal power supplied from the controller and exc. supply. Therefore, the total current consumption of the I/O modules and the end module must be within the supplied current capacity. If the controller's power is insufficient, change the combination of I/O modules or reduce the number of I/O modules.

### ■ CONTROLLER

MODEL	INTERNAL POWER (5V) MAX. RATED LOAD (mA)	EXCITATION SUPPLY (24V) MAX. RATED LOAD (mA)	MAX. CURRENT CONSUMPTION (POWER) (mA)
PLC8-NE	1400 (2000) *1	1100 (1600) *1	187.5

\*1. The values in the parentheses do not include the current consumption of the controller.

### ■ I/O MODULE

#### • DISCRETE I/O MODULE

MODEL	INTERNAL POWER (5V) MAX. CURRENT CONSUMPTION (mA)	EXCITATION SUPPLY (24V) MAX. CURRENT CONSUMPTION (mA)
PLC8-DAC4	48	8.5

### ■ END MODULE

MODEL	INTERNAL POWER (5V) MAX. CURRENT CONSUMPTION (mA)	EXCITATION SUPPLY (24V) MAX. CURRENT CONSUMPTION (mA)
PLC8-END	2	2.5

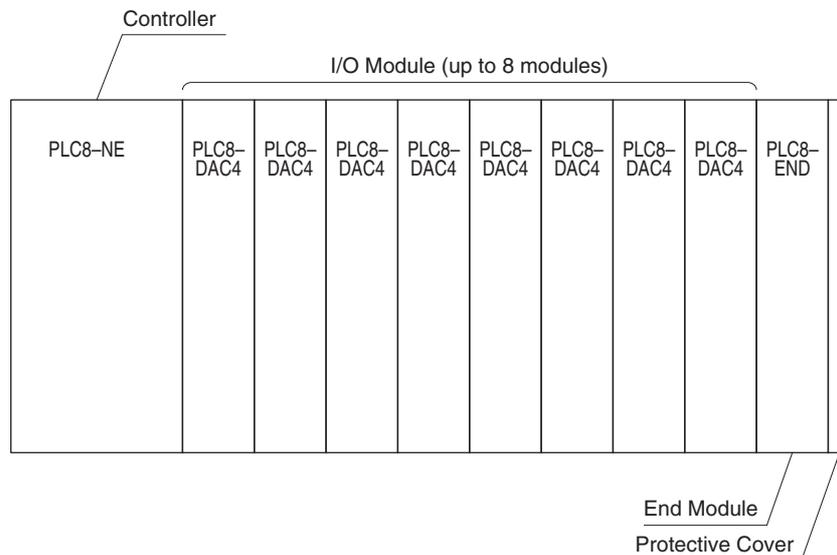
## BASIC CONFIGURATIONS

### ■ CONTROLLER: PLC8-NE

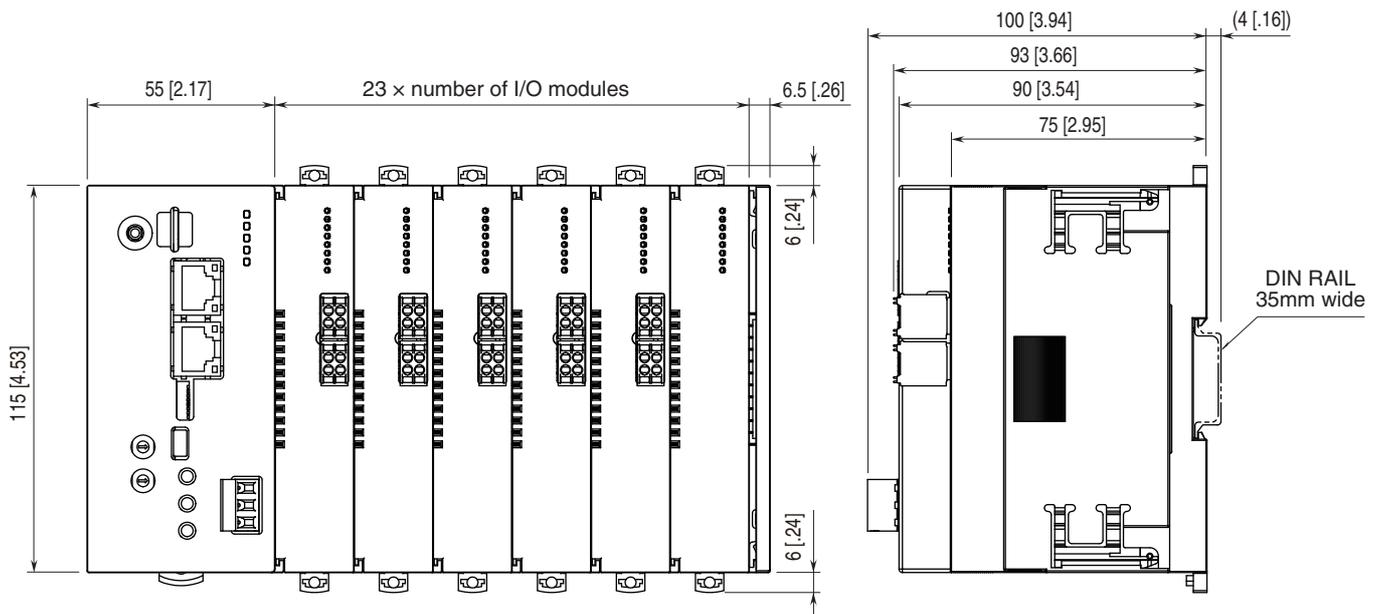
When I/O modules are used, be sure to mount an end module at the terminal of I/O modules. Do not mount other I/O modules at the right of the end module.

When an end module is used, attach the protective cover provided with the controller to the end module for safety.

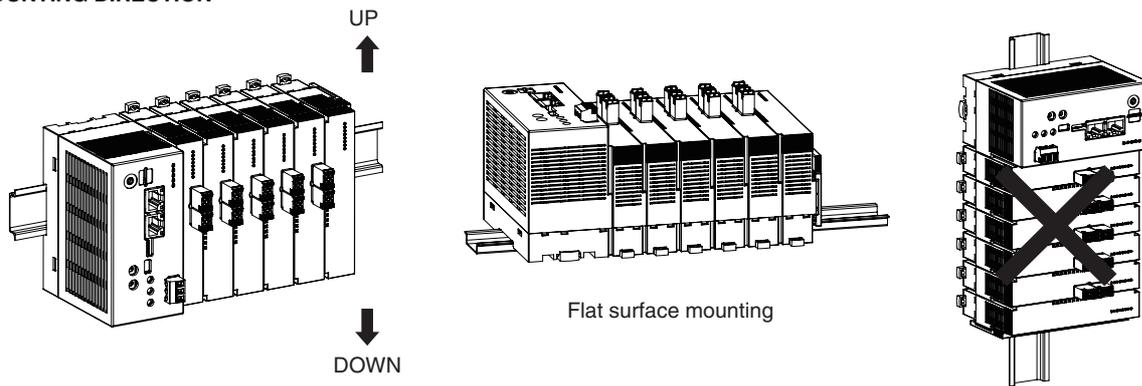
#### • CONFIGURATION EXAMPLE



## MOUNTING REQUIREMENTS unit: mm [inch]

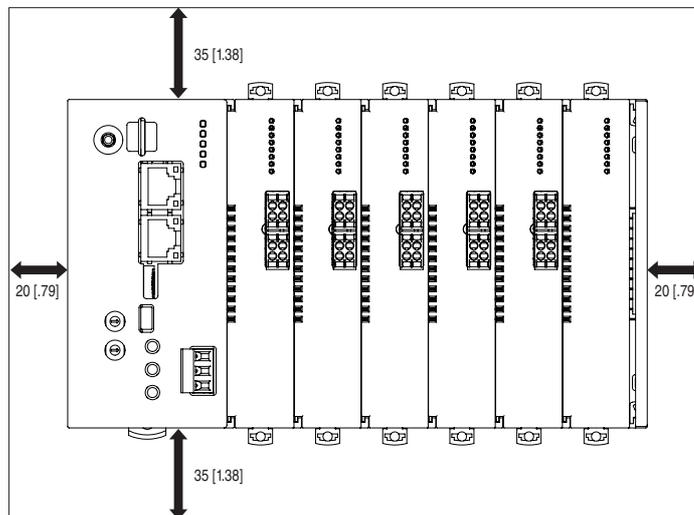


### ■ MOUNTING DIRECTION



### ■ MOUNTING TO PANEL: mm [inch]

Maintain enough space.





Specifications are subject to change without notice.