

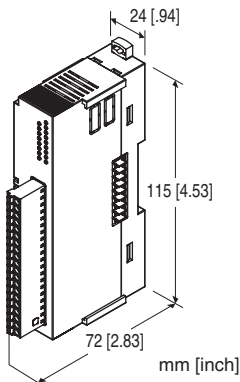
## Remote I/O R8 Series

### DIGITAL INPUT MODULE

(8 points, non-isolated)

#### Functions & Features

- 8 channels for DC or AC voltage input
- Configurable with PC configurator (model: R8CFG)
- Separable tension clamp terminal



### MODEL: R8-DAHVT8N2-[1][2]

#### ORDERING INFORMATION

- Code number: R8-DAHVT8N2-[1][2]  
Specify a code from below for each of [1] and [2].  
(e.g. R8-DAHVT8N2-1/Q)
- Specify the specification for option code /Q  
(e.g. /C01)

#### [1] INPUT CHARACTERISTICS

- 1: 100V AC
- 2: 200V AC
- 3: 100V DC
- 4: 200V DC

#### [2] OPTIONS

blank: none

/Q: With options (specify the specification)

#### SPECIFICATIONS OF OPTION: Q

**COATING (For the detail, refer to our web site.)**

/C01: Silicone coating

/C02: Polyurethane coating

#### RELATED PRODUCTS

- PC Configurator cable (model: MCN-CON or COP-US)
  - PC configurator software (model: R8CFG)
- Downloadable at our web site.

#### GENERAL SPECIFICATIONS

##### Connection

- **Input:** Tension clamp terminal block  
**Applicable wire size:** 0.2 - 1.5 mm<sup>2</sup>  
**Stripped length:** 10 mm
  - **Excitation supply, internal bus:**  
Connected to internal bus connector
  - **Internal power:** Supplied from internal bus connector
- Isolation:** Input to exc. supply to internal bus or internal power
- Module address:** With DIP switch
- Terminating resistor:** Built-in (DIP Switch, default: disable)
- Status indicator:** Bi-color (red/green) LED; Refer to the instruction manual.
- Input status indicator:** Green LED; Refer to the instruction manual.

#### INPUT SPECIFICATIONS

- Number of input:** 8 points
- Input resistance:**  $\geq 1 \text{ M}\Omega$
- Input filter:**  $\leq 10 \text{ msec.}$
- **AC voltage**  
**Frequency:** 50/60 Hz (45 to 66 Hz)  
**100 V AC**
    - **Rated voltage:** 100 - 120 V AC
    - **Input range:** 85 - 132 V AC
    - **ON voltage:**  $\geq 79 \text{ V AC}$
    - **OFF voltage:**  $\leq 20 \text{ V AC}$
  - **200 V AC**
    - **Rated voltage:** 200 - 240 V AC
    - **Input range:** 170 - 264 V AC
    - **ON voltage:**  $\geq 164 \text{ V AC}$
    - **OFF voltage:**  $\leq 40 \text{ V AC}$
  - **DC voltage**  
**100 V DC**
    - **Rated voltage:** 100 - 120 V DC
    - **Input range:** 85 - 132 V DC
    - **ON voltage:**  $\geq 79 \text{ V DC}$
    - **OFF voltage:**  $\leq 20 \text{ V DC}$
  - **200 V DC**
    - **Rated voltage:** 200 - 240 V DC
    - **Input range:** 170 - 264 V DC
    - **ON voltage:**  $\geq 164 \text{ V DC}$
    - **OFF voltage:**  $\leq 40 \text{ V DC}$

## INSTALLATION

**Max. current consumption:** 160 mA  
**Operating temperature:** -10 to +55°C (14 to 131°F)  
**Operating humidity:** 30 to 90 %RH (non-condensing)  
**Atmosphere:** No corrosive gas or heavy dust  
**Mounting:** DIN rail  
**Weight:** 110 g (0.24 lb)

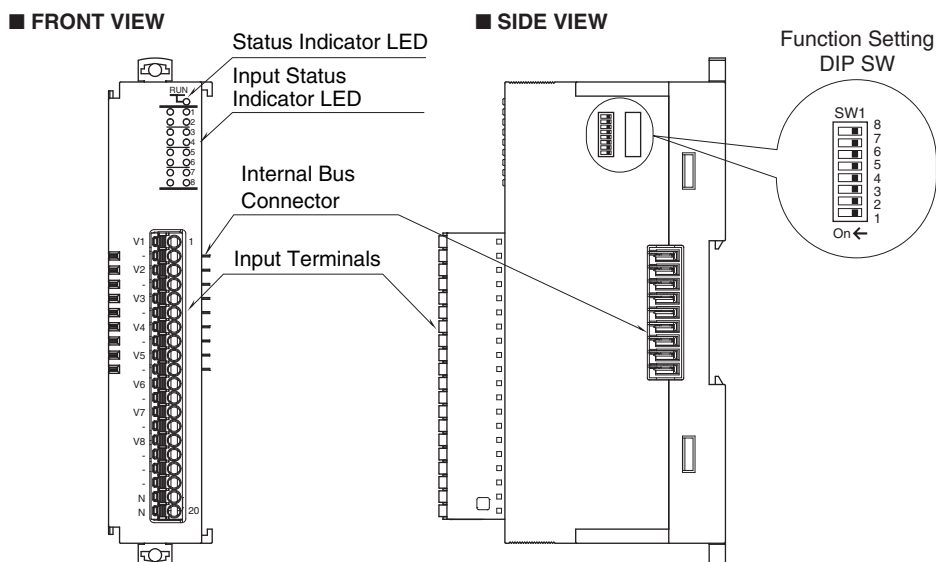
## PERFORMANCE

**Data allocation:** 1  
**Module addresses in use:** 1  
**Insulation resistance:**  $\geq 100 \text{ M}\Omega$  with 500 V DC  
**Dielectric strength:**  
 1500 V AC @ 1 minute (input to exc. supply to internal bus  
 or internal power to ground)

## STANDARDS & APPROVALS

**EU conformity:**  
 EMC Directive  
 EMI EN 61000-6-4  
 EMS EN 61000-6-2  
 Low Voltage Directive  
 EN 61010-1, EN 61010-2-201  
 Measurement Category II (input)  
 Pollution Degree 2  
 Input to exc. supply or internal bus or internal power:  
 Reinforced insulation (300 V)  
 RoHS Directive

## EXTERNAL VIEW



## OPERATING MODE SETTING

(\*) Factory default setting

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

### MODULE ADDRESS (SW1)

SW1-1 and SW1-2 determine the tenth place digit, while SW1-3 through 1-6 do the ones place digit of the module address.

Address is selected between 0 to 31.

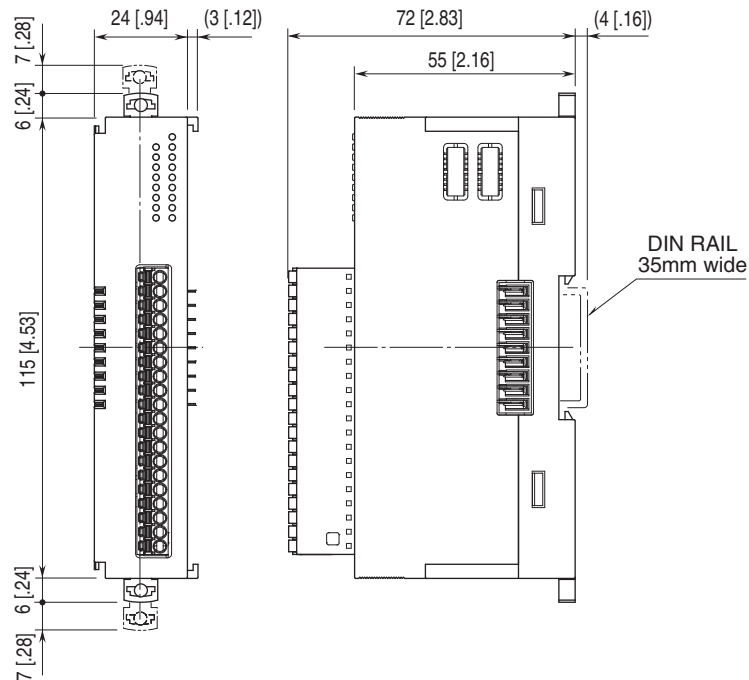
(Factory setting: 0)

| MODULE ADDRESS | SW1 |     |     |     |     |
|----------------|-----|-----|-----|-----|-----|
|                | ×10 | 3   | 4   | 1   | 2   |
|                | ×1  |     |     | 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  |

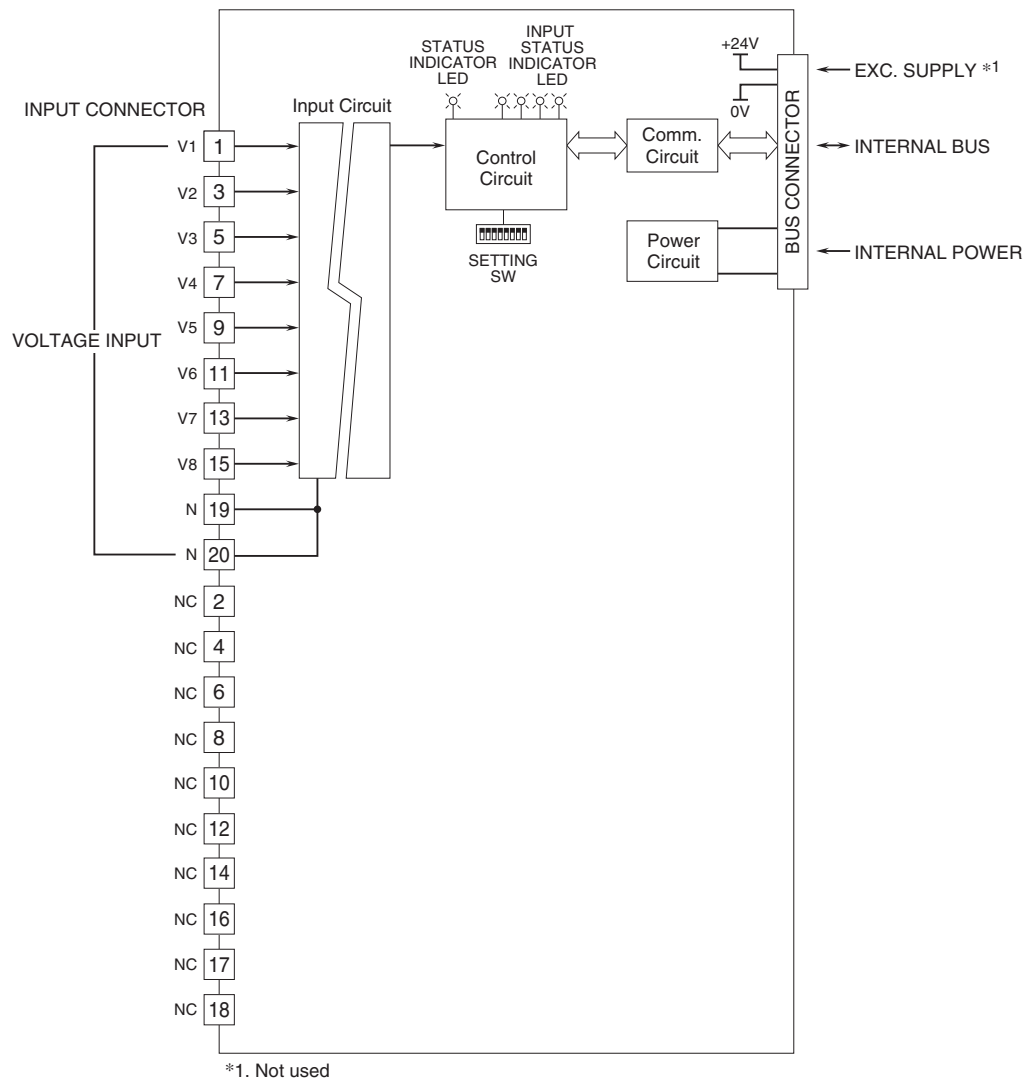
### TERMINATOR (SW1)

| TERMINATOR  | SW1-8 |
|-------------|-------|
| Without (*) | OFF   |
| With        | ON    |

## EXTERNAL DIMENSIONS unit: mm [inch]



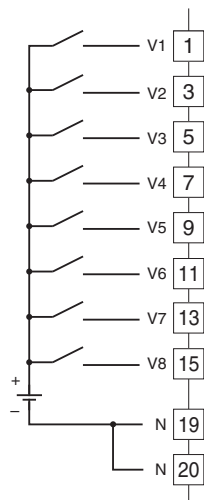
## SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



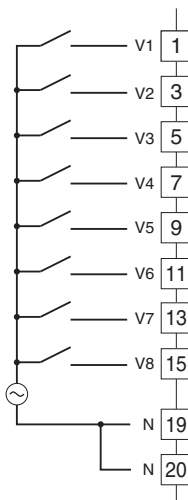
\*1. Not used

## ■ Input Connection Examples

- DC voltage



- AC voltage





Specifications are subject to change without notice.