

Remote I/O R8 Series

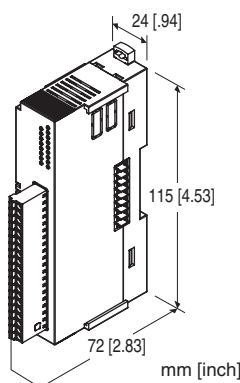
Downloadable at our web site.

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: COP-US)
- PC configurator software (model: R8CFG)

GENERAL SPECIFICATIONS

Connection

- **Input:** Tension clamp
Applicable wire size: 0.2 - 1.5 mm²
Stripped length: 10 mm
- **Excitation supply, internal bus:**
Connected to internal bus connector
- **Internal power:** Via 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**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)

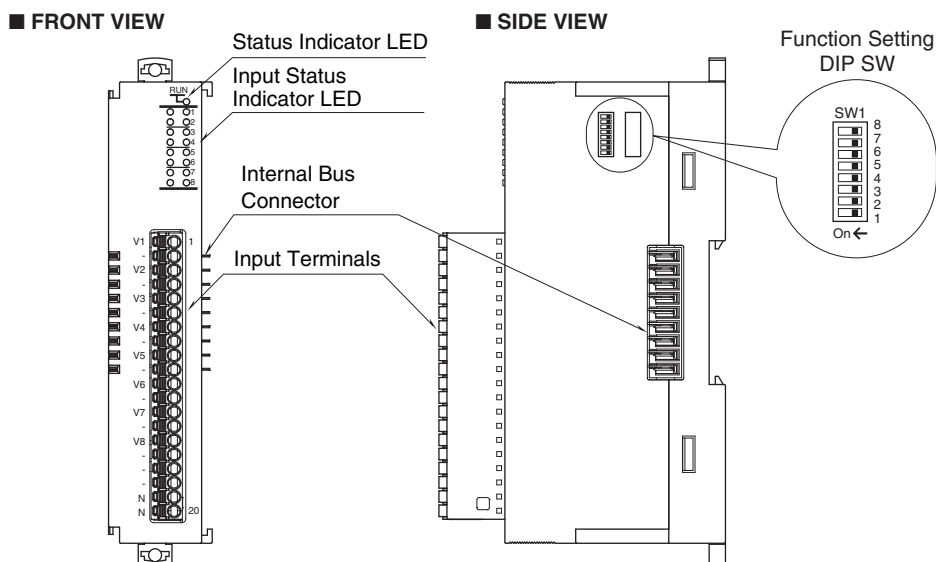
PERFORMANCE

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 setting

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

• MODULE ADDRESS

The SW1-1 and SW1-2 determine the tenth place digit, while the SW1-3, SW1-4, SW1-5 and SW1-6 does the ones place digit of the address.

Address is selected between 0 to 24.

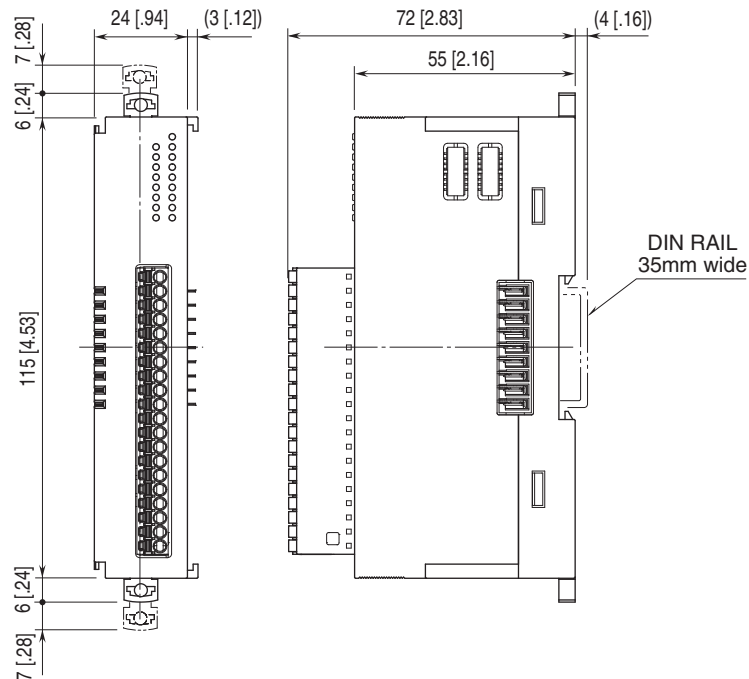
(Factory setting: 0)

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

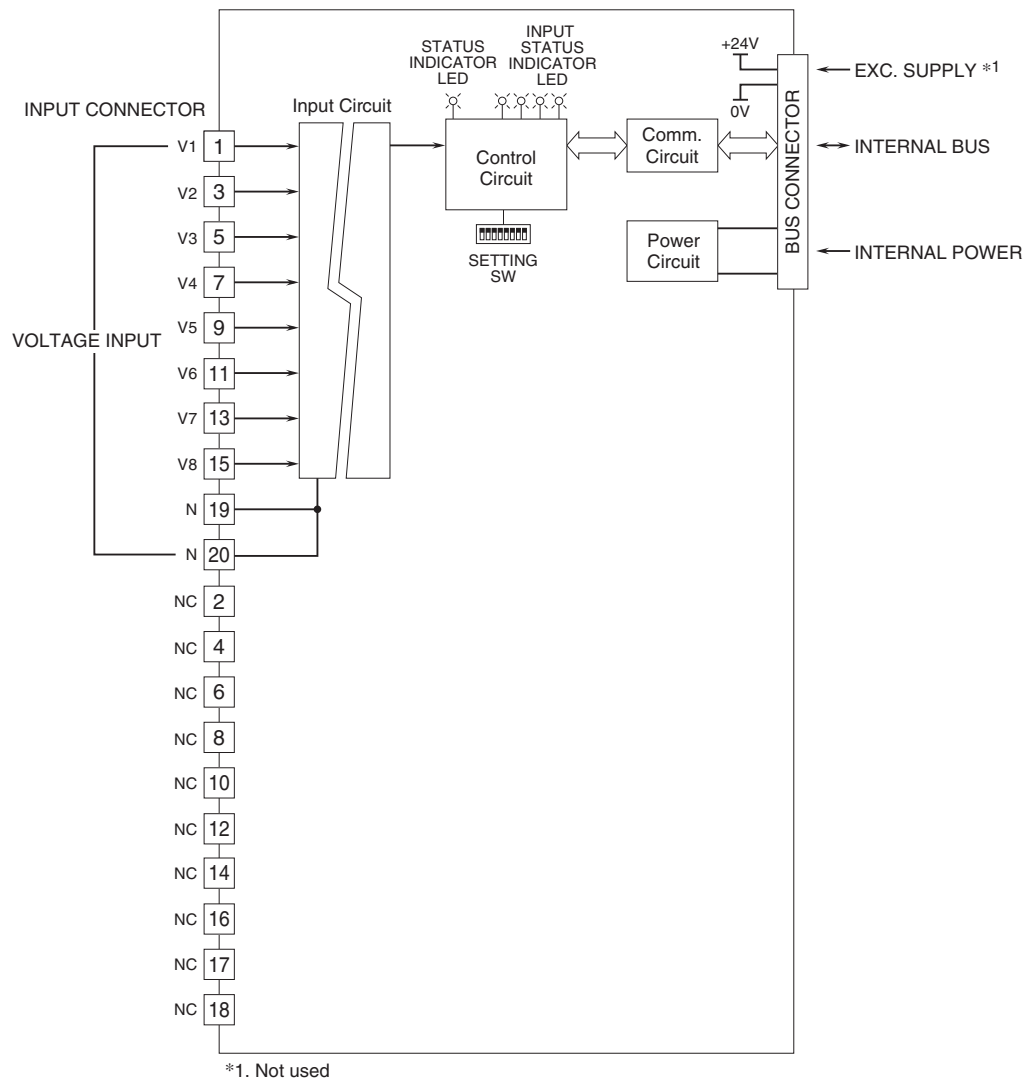
• TERMINATOR DIP SW

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

EXTERNAL DIMENSIONS unit: mm [inch]

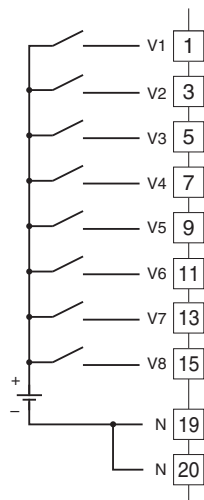


SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM

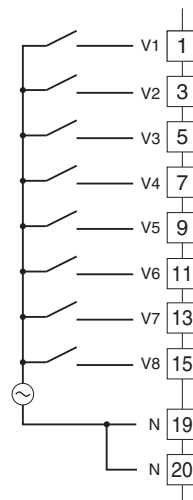


Input Connection Examples

DC voltage



AC voltage





Specifications are subject to change without notice.