

Remote I/O R8 Series

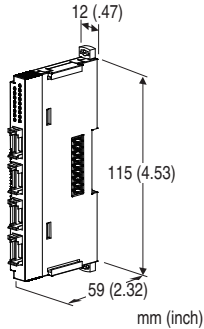
manual.

TOTALIZED PULSE INPUT MODULE, 4 points

(NPN / PNP / Voltage pulse input)

Functions & Features

- Space-saving remote I/O module of 4 points input pulse counter



MODEL: R8-PA4[1]

ORDERING INFORMATION

- Code number: R8-PA4[1]
Specify a code from below for [1].
(e.g. R8-PA4A)

[1] INPUT

- A: NPN input
- B: PNP input
- C: Voltage pulse input

GENERAL SPECIFICATIONS

Connection

- **Input:** 4-pin e-CON connector
PWB connector XN2D-1474-S002 (Omron)
Recommended cable connector XN2A-1470 (Omron)
Applicable wire size 0.08 mm² (AWG28) - 0.5 mm² (AWG20)
Outer sheath diameter: max. 1.5 dia
(The cable connector is not included in the package.
Refer to the specifications of the product.)

•Excitation supply, internal bus:

Connected to internal bus connector

•Internal power:

Supplied from internal bus connector
Isolation: Input or exc. supply to internal bus or internal power

Module address: With rotary 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

INPUT SPECIFICATIONS

Common: Positive or negative common (NPN/PNP) per 4 points

Number of inputs: 4

I/O status indicator: LED turns on with closed contact.

• **NPN/PNP input** (internal supply with excitation supply input from network power module)

Rated load voltage: 24 V DC $\pm 10\%$; ripple 5 %p-p max.

ON voltage / ON resistance: ≤ 4 V (input terminal to COM) / $\leq 900 \Omega$

OFF voltage / OFF resistance: ≥ 16 V (input terminal to COM) / $\geq 10 \text{ k}\Omega$

•Voltage pulse input

Max. input voltage amplitude: 24 V DC + $\leq 10\%$

ON voltage / ON current: ≥ 16 V DC (input terminal to COM) / $\geq 3.7 \text{ mA}$

OFF voltage / OFF current: ≤ 5 V DC (input terminal to COM) / $\leq 1 \text{ mA}$

Input current: $\leq 5.5 \text{ mA}$ / point (@24 V DC)

Input resistance: Approx. 4.4 k Ω

ON delay: $\leq 2.0 \text{ msec.}$

OFF delay: $\leq 2.0 \text{ msec.}$

Max. Frequency: 100 Hz

Minimum ON/OFF pulse requirements: 5 ms

Accumulated pulse count: 0 - 4 294 967 295

Max. accumulable pulse: 1 - 4,294,967,295 (factory setting: 4,294,967,295)

Overflow reset value: 0 or 1 (factory setting: 0)

INSTALLATION

Max. current consumption: 80 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: 60 g (2.12 oz)

PERFORMANCE

Data allocation: 2

Module addresses in use: 4

Power output (input terminal): Rated current 0.1A DC per channel

(rated current 3 A for internal fuse (slow blow fuse i²t (A²sec) max. 0.31)

Total 0.4 A DC

Insulation resistance: $\geq 100 \text{ M}\Omega$ with 500 V DC

Dielectric strength: 1500 V AC @ 1 minute

(input or exc. supply to internal bus or internal power to



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ground)

STANDARDS & APPROVALS

CE conformity:

EMC Directive (2004/108/EC)

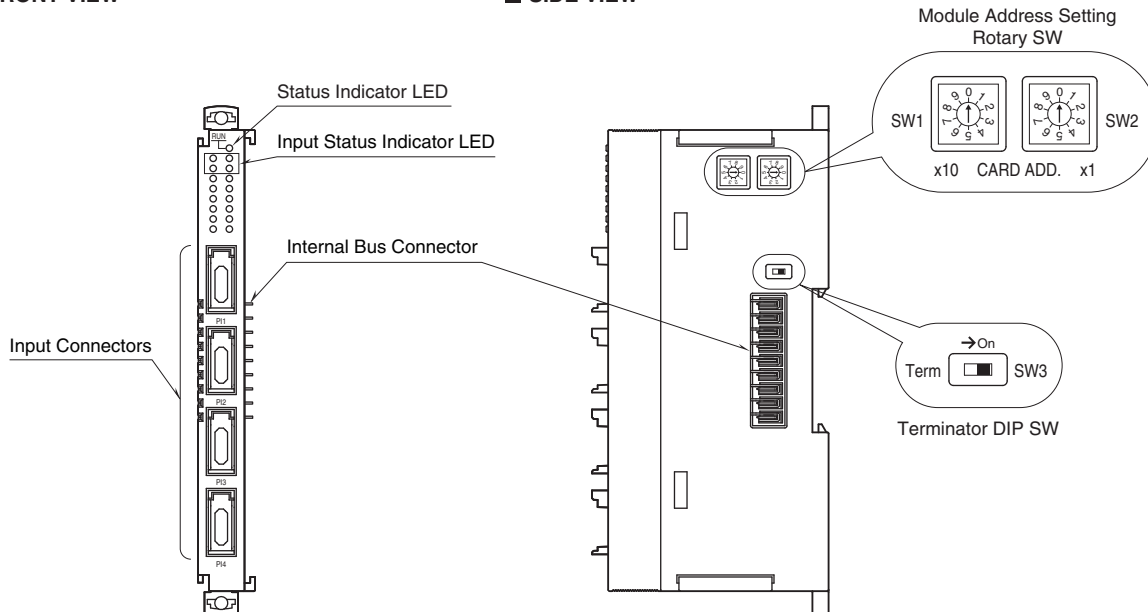
EMI EN 61000-6-4: 2007

EMS EN 61000-6-2: 2005

EXTERNAL VIEW

■ FRONT VIEW

■ SIDE VIEW



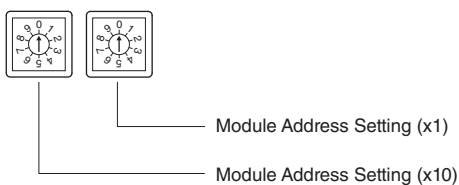
OPERATING MODE SETTING

(*) Factory setting

■ MODULE ADDRESS

The left switch determines the tenth place digit, while the right switch does the ones place digit of the address. Address is selected between 0 to 31.

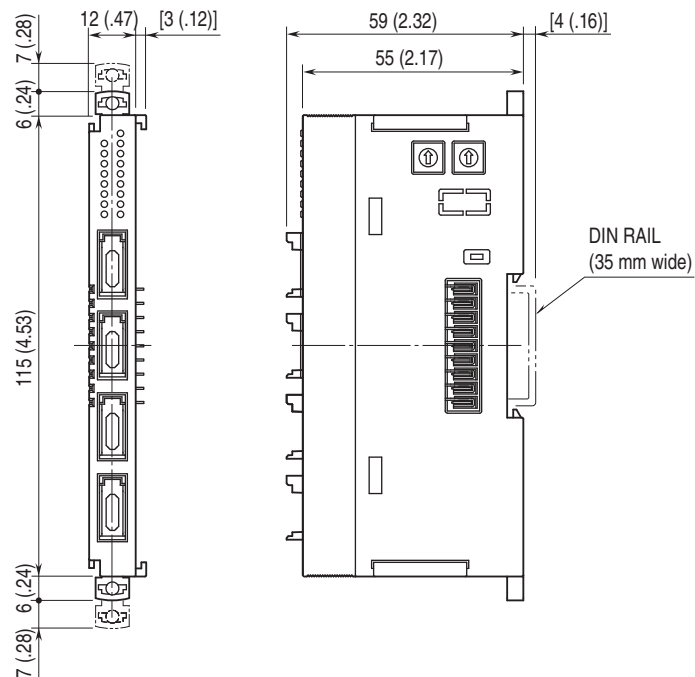
(Factory setting: 0)



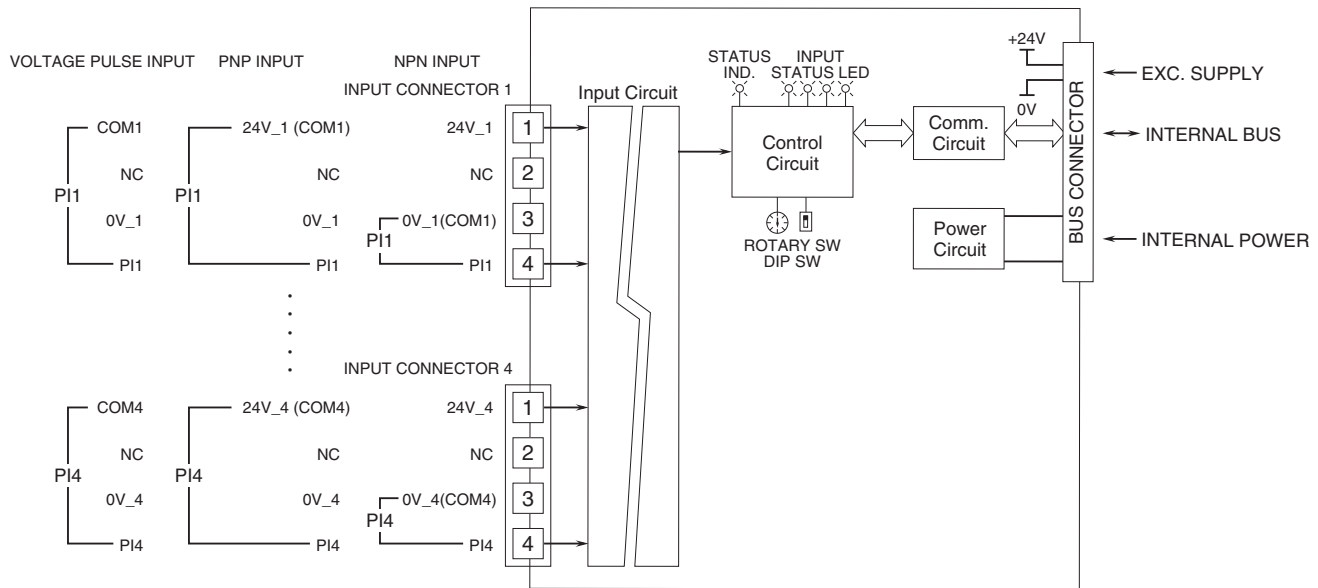
■ Terminator DIP SW

Terminator switch	SW3
Without (*)	OFF
With	ON

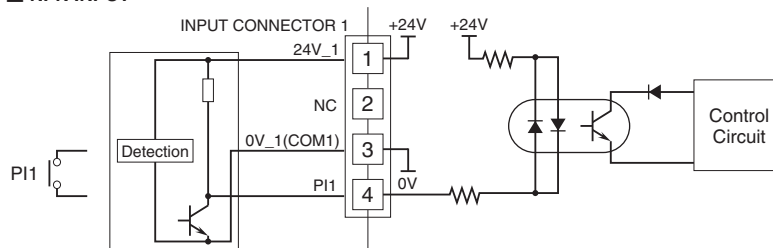
DIMENSIONS unit: mm (inch)



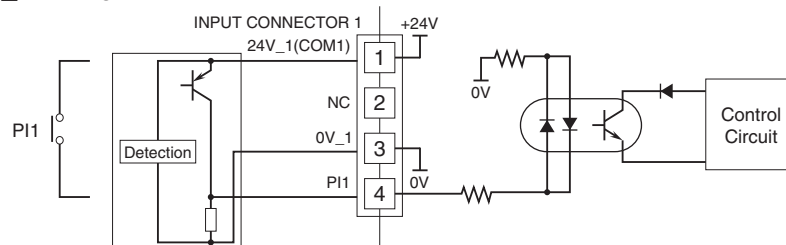
SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



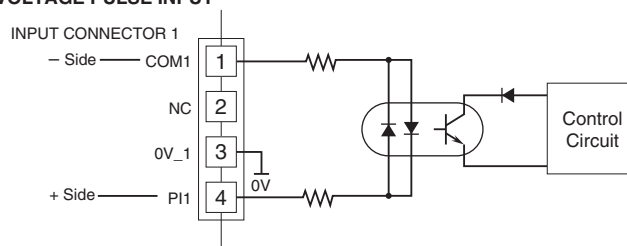
■ NPN INPUT



■ PNP INPUT



■ VOLTAGE PULSE INPUT



Specifications are subject to change without notice.