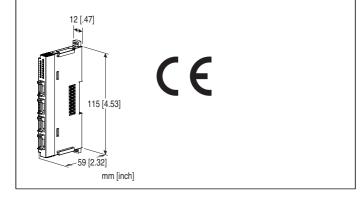
MODEL: R8-PA4F

Remote I/O R8 Series

HIGH-SPEED TOTALIZED PULSE INPUT MODULE, 4 points (NPN input)

Functions & Features

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



MODEL: R8-PA4FA[1]

ORDERING INFORMATION

Code number: R8-PA4FA[1]
 Specify a code from below for [1].
 (e.g. R8-PA4FA/Q)

 Specify the specification for option code /Q (e.g. /C01)

INPUT

A: NPN input

[1] 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 software (model: R8CFG)

Downloadable at our web site.

A dedicated cable is required to connect the module to the PC. Please refer to the internet software download site or the users manual for the PC configurator for applicable cable types.

Note: When using with Power/Network module (model: R8-NECT1), firmware version Ver1.50 or later is supported.

GENERAL SPECIFICATIONS

Connection

•Input: 4-pin e-CON connector

Unit side connector XN2D-1474-S002 (Omron)

Recommended cable side connector XN2A-1470 (Omron)

Applicable wire size: 0.08 - 0.5 mm² (AWG28 - 20)

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

manual.

INPUT SPECIFICATIONS

Common: Positive common (NPN) per 4 points

Number of inputs: 4

I/O status indicator: LED turns on with closed contact.NPN input (internal supply with excitation supply input

from network power module)

Rated load voltage: 24 V DC ± 10 %; ripple 5 %p-p max. ON voltage / ON current: ≥ 16 V DC (input terminal to

COM) $/ \ge 7.2 \text{ mA}$

OFF voltage / OFF current: \leq 6 V DC (input terminal to

 $COM) / \leq 2.5 mA$

Input current: 11.2 mA / point (@24 V DC)

Input resistance: Approx. 2 $k\Omega$ Max. Frequency: 10 kHz

Min. pulse width requirement: 20 µsec. for both ON and OFF

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: 90 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)

MODEL: R8-PA4F

PERFORMANCE

Data allocation: 2

Module addresses in use: 4

Power output (input connector): Rated current 0.1 A 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: ≥ 100 M Ω with 500 V DC Dielectric strength: 1500 V AC @ 1 minute

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

ground)

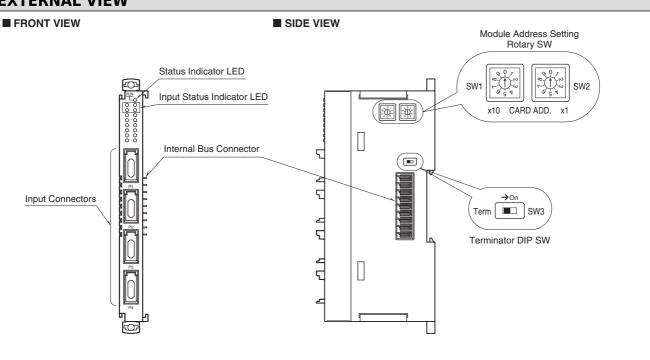
STANDARDS & APPROVALS

EU conformity:

RoHS Directive

EMC Directive EMI EN 61000-6-4 EMS EN 61000-6-2

EXTERNAL VIEW



MODEL: R8-PA4F

OPERATING MODE SETTING

(*) Factory setting

■ Module Address

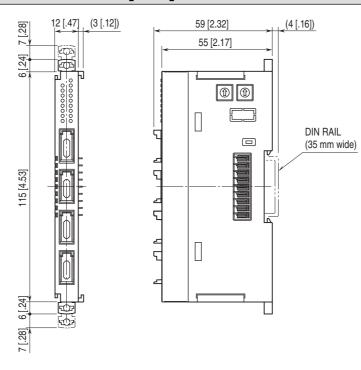
The left switch determines the tenth place digit, while the right switch does the ones place digit of the address. Address is selected between 0 to 28. (Factory setting: 0)



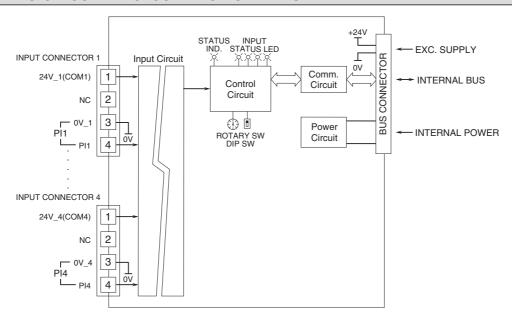
■ Terminator DIP SW

TERMINATOR SW	SW3
Without (*)	OFF
With	ON

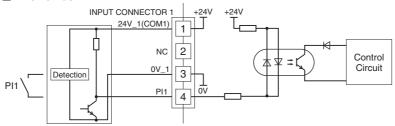
EXTERNAL DIMENSIONS unit: mm [inch]



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



■ INPUT CIRCUIT





Specifications are subject to change without notice.