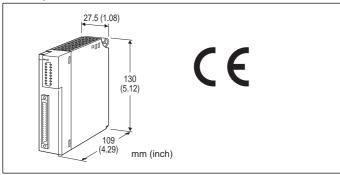
## Remote I/O R3 Series

#### **TOTALIZED PULSE INPUT MODULE**

(Pi 16 points)



MODEL: R3Y-PA16[1][2]

#### **ORDERING INFORMATION**

• Code number: R3Y-PA16[1][2] Specify a code from below for [1], [2] (e.g. R3Y-PA16W/A/CE)

#### NO. OF CHANNELS

**16**: 16

#### [1] COMMUNICATION MODE

**S**: Single **W**: Dual

### [2] OPTIONS (multiple selections)

**Excitation** 

**Blank**: Internal (negative common)

/A: External (24 V DC, negative common)

**STANDARDS & APPROVALS** 

**blank**: Without CE /CE: CE marking

#### **GENERAL SPECIFICATIONS**

Connection

Internal bus: Via the Installation Base (model: R3-BSx)
Input: 40-pin connector (Fujitsu Model FCN-365P040-AU)

**Power supply**: Via the base (model: R3-BSx)

Isolation: Input to internal power
RUN indicator: Bi-color (red/green) LED;
Red when the bus A operates normally;
Green when the bus B operates normally;
Amber when both buses operate normally.
ERR indicator: Bi-color (red/green) LED;
Red with the excitation abnormality;

Green in normal operating conditions.

Input status indicator: Red LED; turns on with the inputs

supplied.

Count reset: Via DIP switches on the side

#### INPUT SPECIFICATIONS

Number of input: 16 points Input resistance:  $6 \text{ k}\Omega$ 

Common: Negative commons, all points

**Maximum frequency**: 100 Hz (ON/OFF time  $\geq$  5 msec.) This unit is designed to be able to accept a frequency up to 100 Hz, however, 'chattering' contact must be avoided for accurate measuring of such high frequency. Use mercury relays or similar ones that do not cause any chattering.

Totalized pulse range: 1 - 10000 ('0' at reset)

Max. pulse range selectable from 1 to 65535 using the R3CON PC Configurator Software. Refer to the R3CON Users

Manual for detailed information.

Count at overflow: Reset and restart at '1.'

■ R3-PA16x (internal excitation)

Sensing voltage: 13 V DC (max. 24 V with no load)

ON current:  $\geq 1.5$  mA ( $\leq 1.5$  k $\Omega$ ) OFF current:  $\leq 0.75$  mA ( $\geq 18$  k $\Omega$ )  $\blacksquare$  R3-PA16x/A (external excitation)

Sensing voltage: 24 V DC ON current:  $\geq 1.5$  mA ( $\leq 12$  k $\Omega$ ) OFF current:  $\leq 0.75$  mA ( $\geq 36$  k $\Omega$ )

#### **INSTALLATION**

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**: Installation Base (model: R3-BSx)

Weight: 200 g (0.44 lbs)

#### **PERFORMANCE**

Data allocation: 16 Current consumption: R3Y-PA16x: 100 mA R3Y-PA16x/A: 80 mA

Insulation resistance:  $\geq 100 \text{ M}\Omega$  with 500 V DC Dielectric strength: 2000 V AC @ 1 minute

(input to internal power)

2000 V AC @ 1 minute (power input to FG; isolated on the

power supply module)

#### **STANDARDS & APPROVALS**

CE conformity:

EMC Directive (2004/108/EC) EMI EN 61000-6-4: 2007



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EMS EN 61000-6-2: 2005

#### **FUNCTIONS**

#### **■ MANUAL COUNT RESET**

- 1) Remove Network Module or its cables and interrupt communication with other devices.
- 2) Turn ON the Count Reset SW (DIP SW3-1).
- 3) Return the module to the base and turn the power supply
- 4) ERR LED turns on and the module starts resetting its counter. When the resetting is complete, the LED light turns to green. DO NOT remove the power while the red light is on.The RUN LED starts blinking at the same time.
- 5) After the green LED is confirmed, turn the power supply off.
- 6) Turn OFF the Count Reset SW (DIP SW3-1).
- 7) Return the Network module onto the base and turn the power supply on.

Note: Count Reset SW must be turned OFF after this procedure because the module does not start counting with ON state.

#### **■ REMOTE COUNT RESET INPUT**

With the Count Reset Input SW (DIP SW3-3) turned ON, the Pi 16 pulse input can be used to remotely reset the count values.

SW3-3 = OFF: Pi 16 is used as a pulse input.

SW3-3 = ON: Pi 16 is used to reset the count values for the Pi 1 through Pi 15. One pulse supplied at the Pi 16 will be recognized as a reset signal.

#### **■ REMOTE COUNT RESET OPERATION**

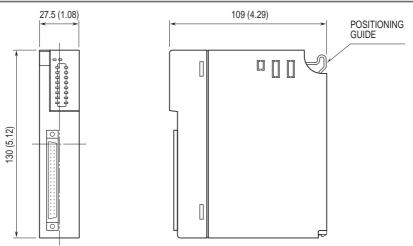
- 1) ERR LED turns on (red color) when the reset signal is
- 2) In 1 second, the module starts resetting its counter. When the resetting is complete, the LED light turns to green
- 3) After 1 second, ERR LED turns back to the state before the reset signal has been received.

Note: Reset signals received while the module is processing (1) through (3) are ignored.

#### **EXTERNAL VIEW**

# **■ FRONT VIEW ■SIDE VIEW RUN LED** ERR LED Status Indicator LED • Pin Assignment B A 20 20 Input Connector Set the Count Reset SW to OFF to start counting.

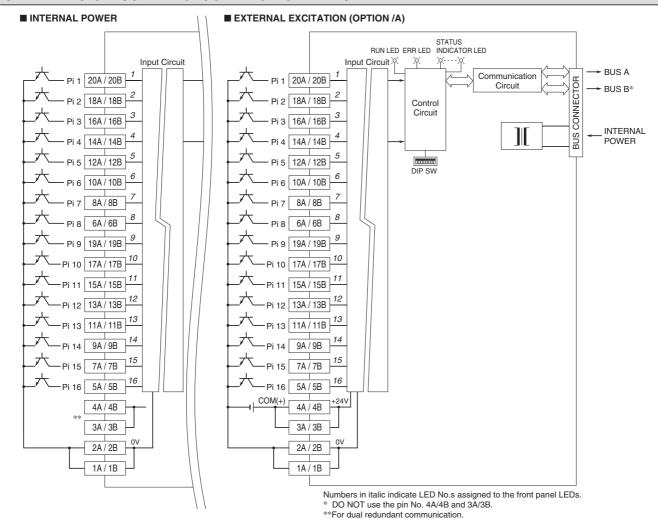
# **DIMENSIONS** unit: mm (inch)



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# **SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM**



# **INPUT CONNECTOR (40-pin)**

	PIN NO.	ASSIGNMENT	PIN NO.	ASSIGNMENT
	1A	0V	1B	0V
	2A	0V	2B	0V
	3A	+24V	3B	+24V
	4A	+24V	4B	+24V
	5A	Pi 16	5B	Pi 16
	6A	Pi 8	6B	Pi 8
	7A	Pi 15	7B	Pi 15
	8A	Pi 7	8B	Pi 7
	9A	Pi 14	9B	Pi 14
	10A	Pi 6	10B	Pi 6
	11A	Pi 13	11B	Pi 13
	12A	Pi 5	12B	Pi 5
-	13A	Pi 12	13B	Pi 12
	14A	Pi 4	14B	Pi 4
	15A	Pi 11	15B	Pi 11
	16A	Pi 3	16B	Pi 3
	17A	Pi 10	17B	Pi 10
	18A	Pi 2	18B	Pi 2
-	19A	Pi 9	19B	Pi 9
	20A	Pi 1	20B	Pi 1

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Specifications are subject to change without notice.