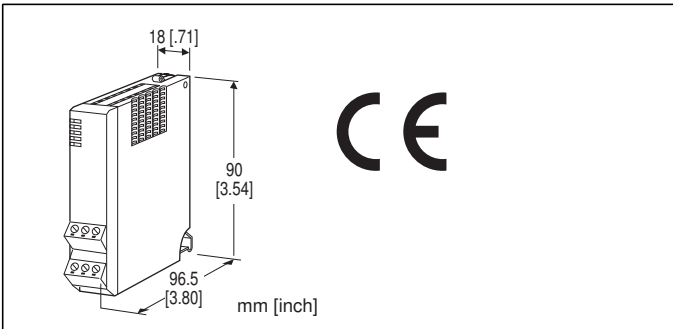## Remote I/O R5 Series

TOTALIZED PULSE INPUT MODULE
(Pi 2 points)

MODEL: R5-PA2[1][2]

ORDERING INFORMATION
• Code number: R5-PA2[1][2]
Specify a code from below for each of [1] and [2].
  (e.g. R5-PA2W/Q)
• Specify the specification for option code /Q
  (e.g. /C01)

NO. OF CHANNELS
2: 2-point inputs

[1] COMMUNICATION MODE
S: Single
W: Dual

[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
/C03: Rubber coating

GENERAL SPECIFICATIONS
Connection
  Internal bus: Via the Installation Base (model: R5-BS)
  Input: Euro type connector terminal
  (Applicable wire size: 0.2 – 2.5 mm^2 (AWG24 - 12),
   stripped length 7 mm)
  Internal power: Via the base (model: R5-BS)
Isolation: Pi 1 to Pi 2 to internal bus or 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.
Input status indicator: Red LED; turns on with the input ON.
Count reset: Via DIP switches on the side

INPUT SPECIFICATIONS
Input: Dry contact, 2 points
Common: All negatives
Contact detecting: Max. 24 V DC
ON voltage, current: ≥ 15 V, ≥ 2.5 mA
OFF voltage, current: ≤ 6 V, ≤ 1 mA
Maximum frequency: 100 Hz (duty ratio 30 – 70 %)
Totalized pulse range: 1 – 10000 ('0' at reset)
Max. pulse range selectable from 100 to 60000 using the R5CON PC Configurator Software. Refer to the R5CON Users Manual for detailed information.
Count at overflow: Reset and restart at '1.'

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: R5-BS)
Weight: 100 g (0.22 lb)

PERFORMANCE
Data allocation: 2
Response time: ≤ 0.1 sec.
Insulation resistance: ≥ 100 MΩ with 500 V DC
Dielectric strength: 1500 V AC @ 1 minute
(Pi 1 to Pi 2 to internal bus or internal power)
2000 V AC @ 1 minute (power input to FG; isolated on the power supply module)

STANDARDS & APPROVALS
EU conformity:
EMC Directive
  EMI EN 61000-6-4
  EMS EN 61000-6-2
RoHS Directive

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FUNCTIONS

■ Counter Reset

1) Remove Network Module or its cables and interrupt communication with other devices.

2) Turn ON the Counter Reset SW (SW8) on the module.

3) Return the module to the base and turn the power supply on.

4) Red RUN 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.

5) After the green LED is confirmed, turn the power supply off.

6) Turn OFF the Counter Reset SW (SW8).

7) Return the Network module onto the base and turn the power supply on.

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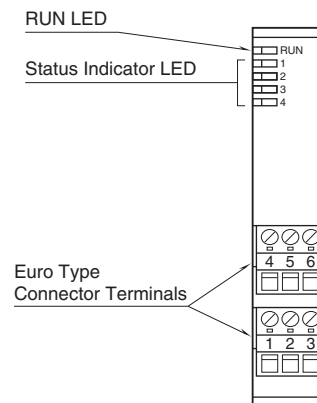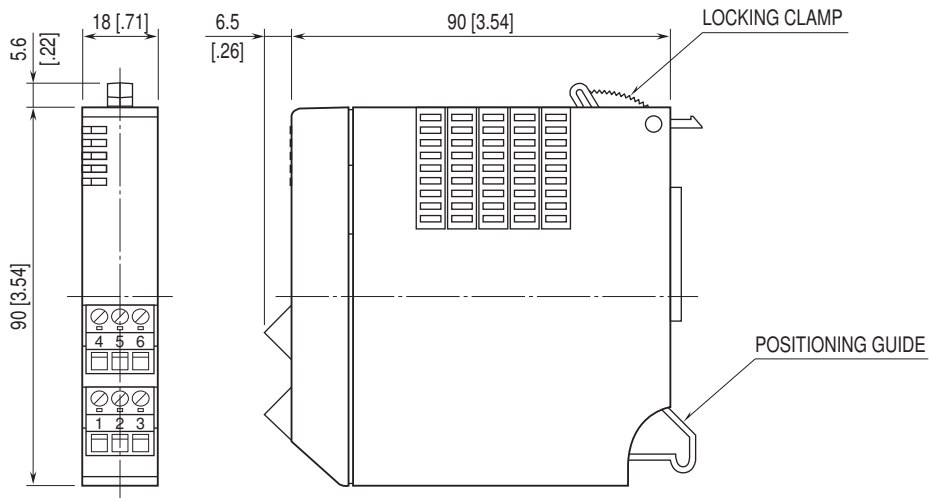
EXTERNAL VIEW

■ SIDE VIEW
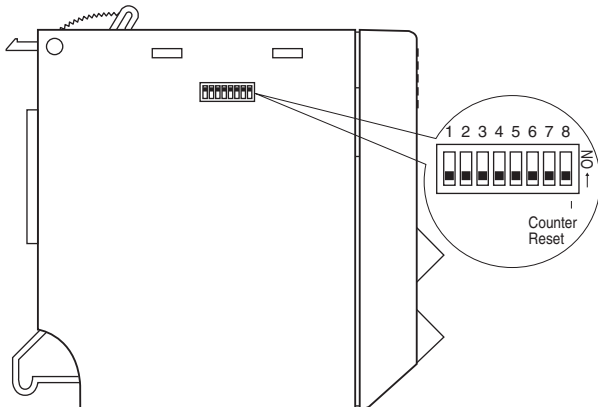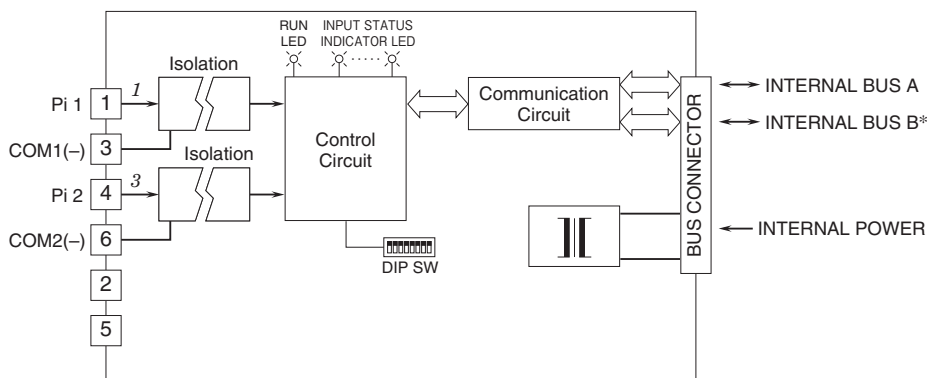

Counter Reset SW is normally OFF during operation.

■ FRONT VIEW

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MODEL: R5-PA2

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS   unit: mm [inch]

LOCKING CLAMP

POSITIONING GUIDE

18 [.71]
5.6 [.22]
6.5 [.26]
90 [3.54]
90 [3.54]

4 5 6
1 2 3

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM

RUN LED
INPUT STATUS INDICATOR LED

Isolation
Pi 1 1 *1*
COM1(−) 3
Isolation
Pi 2 4 *3*
COM2(−) 6
2
5

Control Circuit

DIP SW

Communication Circuit

BUS CONNECTOR

INTERNAL BUS A
INTERNAL BUS B*

INTERNAL POWER

*For dual redundant communication.
Note: Italic typed numbers correspond to the LEDs on the front panel.

⚠ Specifications are subject to change without notice.