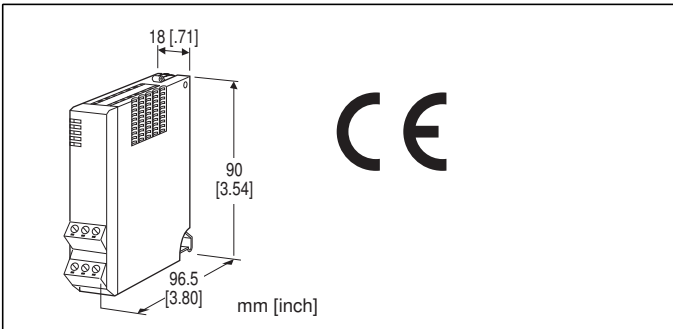


## Remote I/O R5 Series

### 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 M-System's 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<sup>2</sup> (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:**  $\geq 15$  V,  $\geq 2.5$  mA
- OFF voltage, current:**  $\leq 6$  V,  $\leq 1$  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:**  $\leq 0.1$  sec.
- Insulation resistance:**  $\geq 100$  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

## FUNCTIONS

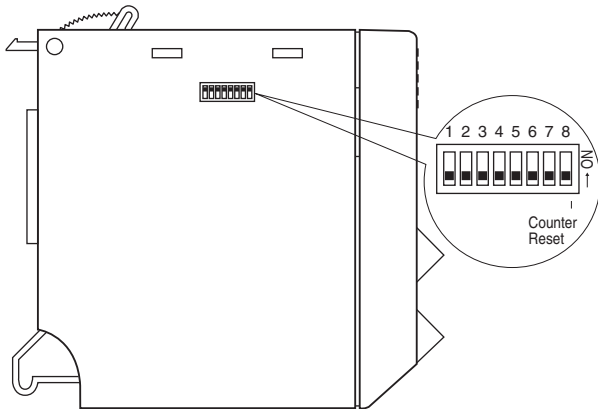
### ■ Counter Reset

- 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.

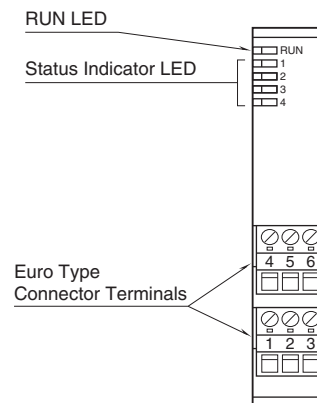
## EXTERNAL VIEW

### ■ SIDE VIEW

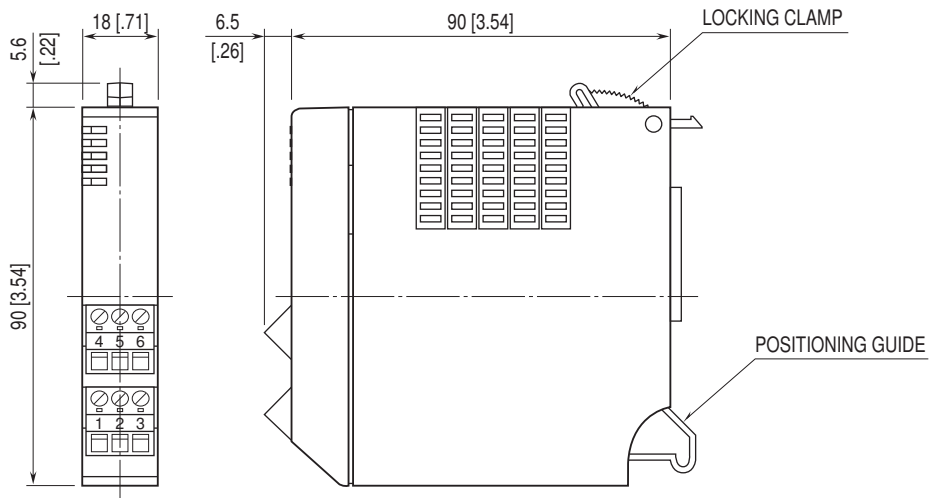


Counter Reset SW is normally OFF during operation.

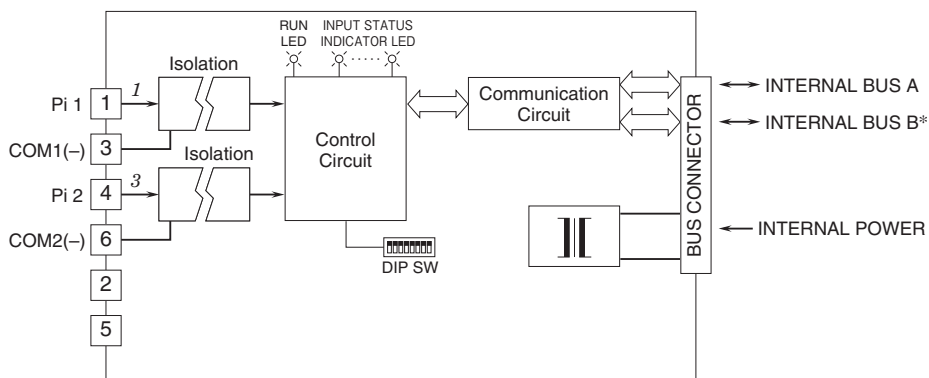
### ■ FRONT VIEW



## EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



## SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



\*For dual redundant communication.

Note: Italic typed numbers correspond to the LEDs on the front panel.



Specifications are subject to change without notice.